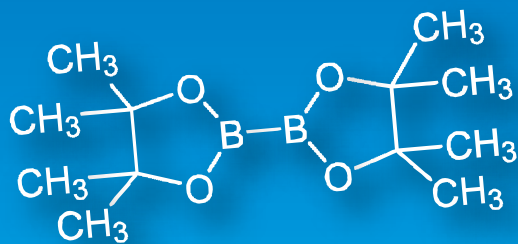
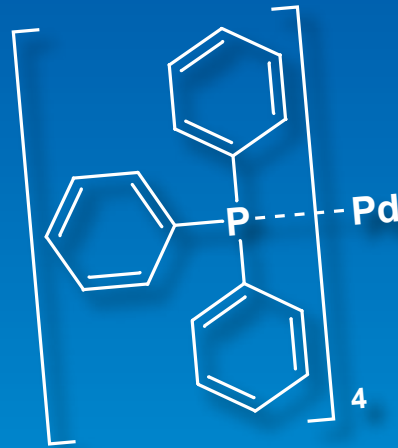
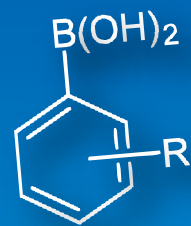


# 鈴木一宮浦

## クロスカップリング反応

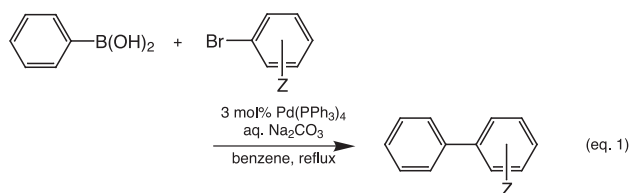
Suzuki-Miyaura Cross Coupling Reaction



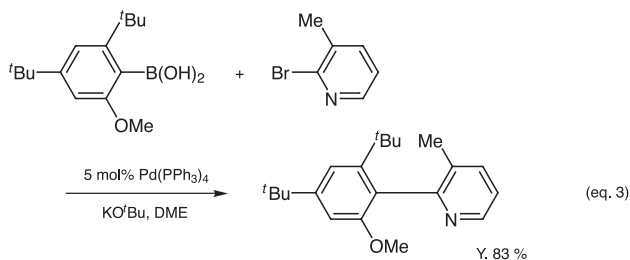
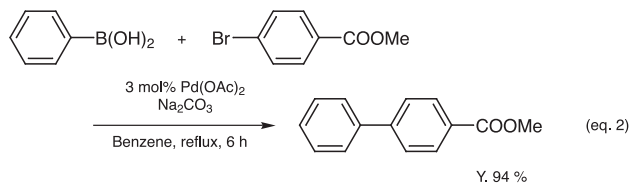
# 鈴木-宮浦クロスカップリング反応

ビアリールは生理活性物質、液晶を始めとする機能性材料などの重要な基本骨格として用いられています。例えば、鎮痛、抗炎症作用を有するジフルニサル、液晶材料4-アルキル-4'-シアノビフェニルは、ビアリールが基本骨格となっています。従来、ビアリールの形成にはウルマン反応、ゴンバーグ-バツハマン-ヘイ反応などが利用されてきましたが、反応の選択性に乏しく、また、その収率も決して高くありませんでした。

1981年、鈴木、宮浦らは、均一系パラジウム触媒と塩基の存在下、アリールボロン酸とアリールブロミドから高い収率でビアリールを合成する画期的な方法を報告しました (eq. 1) <sup>1)</sup>。

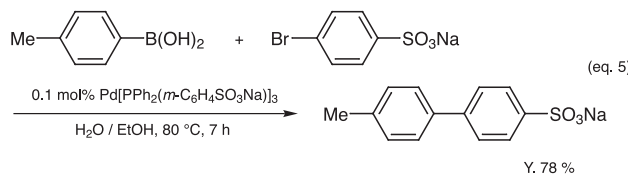
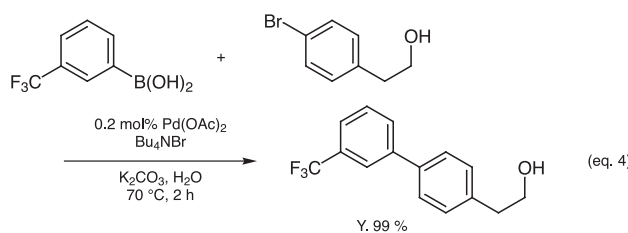


この反応は、温和な条件下、高い選択性と高い収率でビアリールを得ることができます。しかも官能基による制約が少なく、例えば、水酸基やカルボキシル基、ホルミル基など、様々な置換基を有するビアリールを合成することができます (eq.2)。また、高度な立体障害を有するピリジルフェノール誘導体も合成することが可能です (eq.3) <sup>2)</sup>。この有用なカップリング反応は、発明者の名を冠して「鈴木-宮浦クロスカップリング反応」と呼ばれています。この鈴木-宮浦クロスカップリング反応は極めて有用なため、様々な改良が行われています。

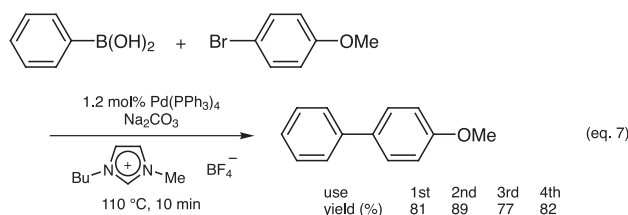


近年、グリーンケミストリーの観点から、水を溶媒として用いる鈴木-宮浦クロスカップリング反応が次々と開発されていま

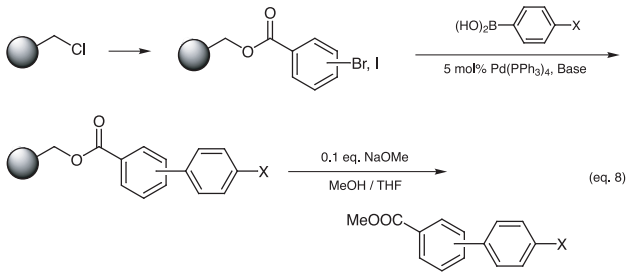
す。例えば、テトラブチルアンモニウムブロミドを用いた反応では、水中でアリールボロン酸と $\text{ArB(OH)}_2 \cdot \text{Bu}_4\text{N}^+$ を形成し、クロスカップリング反応を促進します (eq.4) <sup>3)</sup>。また、水溶性のPd(0)触媒を用いたクロスカップリング反応が報告されています (eq.5) <sup>4)</sup>。



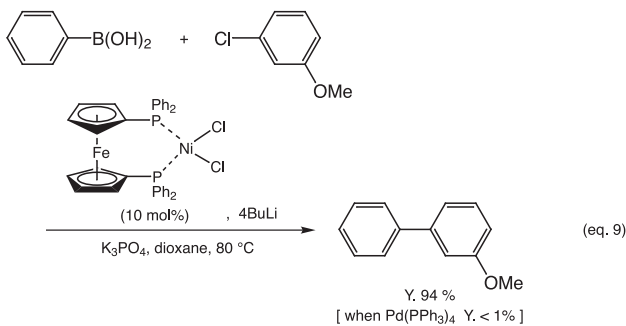
イオン液体を鈴木-宮浦クロスカップリング反応の溶媒として用いる試みもなされています。それによると、反応終了後、生成物は有機溶媒で容易に抽出することができ、触媒はイオン液体中に保持されます。イオン液体および触媒はそのまま再利用することが可能です (eq. 7) <sup>5)</sup>。



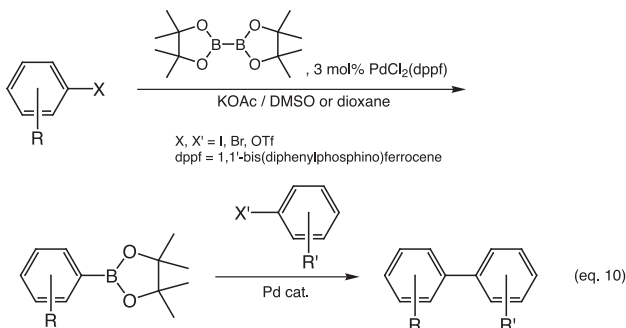
1994年に鈴木-宮浦クロスカップリング反応の固相合成への応用が初めて報告されて以来<sup>6)</sup>、多くの合成例が報告されています。例えば、メリフィールド樹脂に連結したアリールヨードおよびアリールブロミドは種々のアリールボロン酸と反応し、高収率でビアリールを与えます (eq.8)。



アリールハライドおよびアリールトリフラートの反応性は、 $\text{Ar-I} > \text{Ar-Br} > \text{Ar-OTf} \gg \text{Ar-Cl}$ の順となっています。アリールクロリドはPdに対する酸化付加が遅いため、アリール部位がヘテロ環である場合や電子吸引基を有する場合を除き、通常は十分に反応が進行しません。Pd触媒の代わりにNi触媒を用いることにより、アリールクロリドとアリールボロン酸から良好な収率でビアリールを得られることが報告されています (eq. 9) <sup>7)</sup>。



アリールボロン酸の製法は、グリニャール試薬またはリチウム試薬とアルキルボラートを反応させるのが一般的です。しかしながら、低温で反応を行わなければならないこと、置換基によってはボロン酸の収率が低下するという問題点がありました。宮浦らは、ジボロンエステル類とアリールハライドあるいはアリールトリフラートから得られるアリールボロナートが、鈴木-宮浦クロスカップリング反応に利用可能であることを報告しています (eq. 10) <sup>8)</sup>。このアリールボロナートは、クロスカップリング反応に直接利用することができる有用な化合物です。



鈴木-宮浦クロスカップリング反応は、炭素-炭素結合形成のための最も強力な手法の1つであり、様々な目的化合物の炭素骨格を構築するための有用な方法です。

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S. P. Stanforth, *Tetrahedron* **1998**, *54*, 263; J. Hassan, M. Séignon, C. Gozzi, E. Schulz, M. Lemaire, *Chem. Rev.* **2002**, *102*, 1359.

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B. A. Lorschach, M. J. Kurth, *J. Chem. Rev.* **1999**, *99*, 1549; R. Franzén, *Can. J. Chem.* **2000**, *78*, 957.

# 製品一覧

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ボロン酸 . . . . .	5	ジボロン酸・ジボロン酸エステル . . . . .	21
アリールボロン酸 (無置換)			
アリールボロン酸 (一置換)		パラジウム触媒 . . . . .	22
アリールボロン酸 (二置換)			
アリールボロン酸 (三置換)		ニッケル触媒 . . . . .	23
アリールボロン酸 (五置換)			
ヘテロアリールボロン酸		ホスフィン配位子 . . . . .	24
アルケニルボロン酸			
アルキルボロン酸		<i>N</i> -ヘテロ環状カルベン配位子 . . . . .	25
ボロン酸エステル . . . . .	15	塩基・添加剤 . . . . .	26
保護ボロン酸 . . . . .	20	金属スカベンジャー . . . . .	27
トリフルオロボラート塩 . . . . .	20		

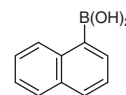
## ボロン酸

アリール  
ボロン酸  
(無置換)

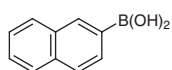
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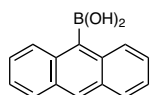
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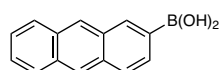
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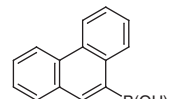
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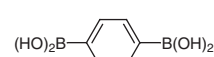
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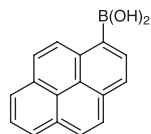
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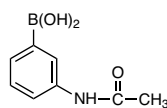
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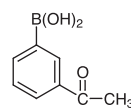
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ボロン酸  
(一置換)

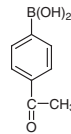
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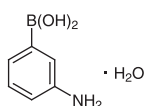
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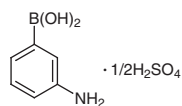
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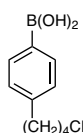
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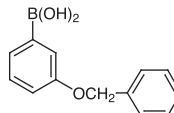
A1774 1g 5g 25g

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Hemisulfate  
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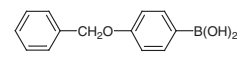
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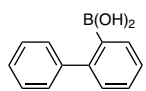
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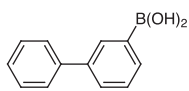
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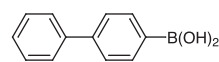
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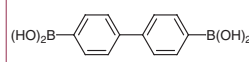
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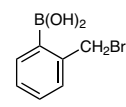
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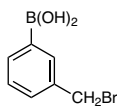
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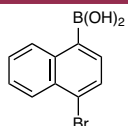
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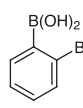
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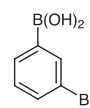
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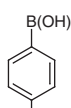
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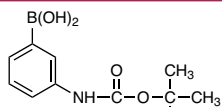
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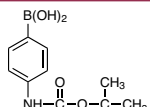
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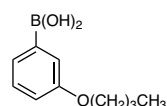
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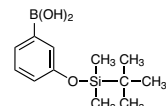
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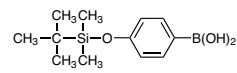
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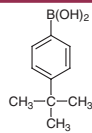
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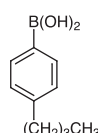
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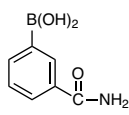
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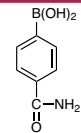
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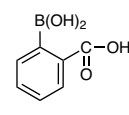
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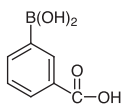
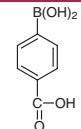
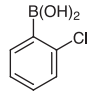
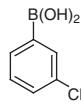
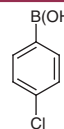
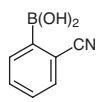
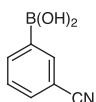
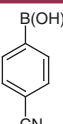
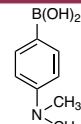
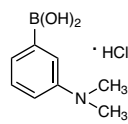
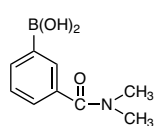
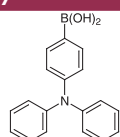
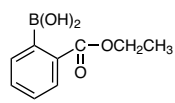
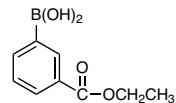
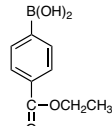
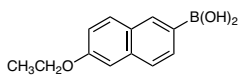
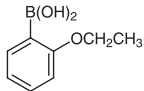
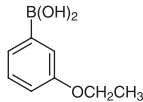
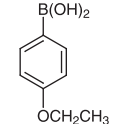
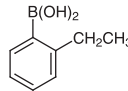
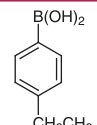
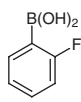
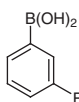
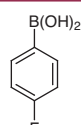
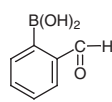
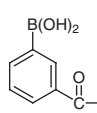
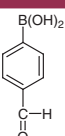
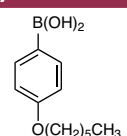
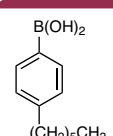
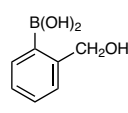
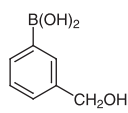
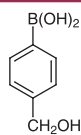
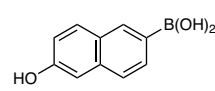
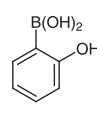
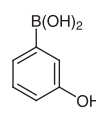
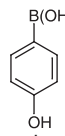
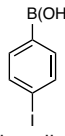
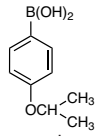
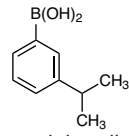
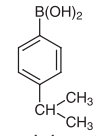
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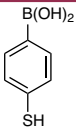
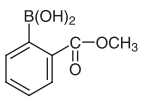
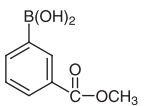
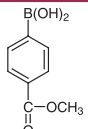
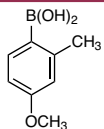
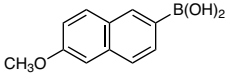
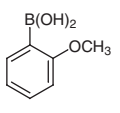
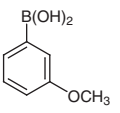
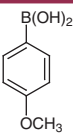
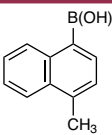
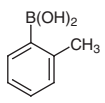
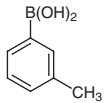
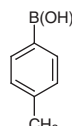
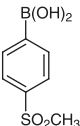
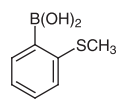
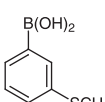
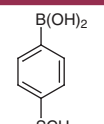
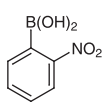
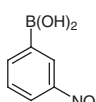
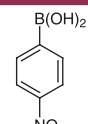
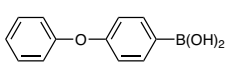
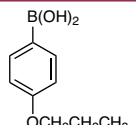
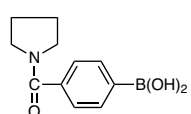
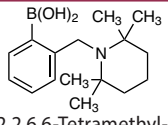
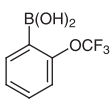
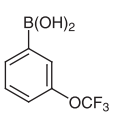
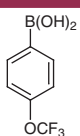
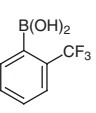
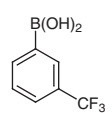
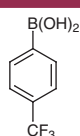
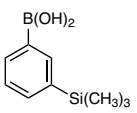
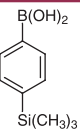
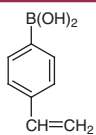
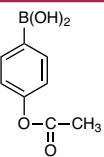
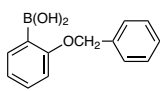
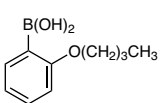
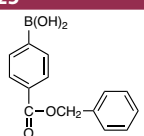
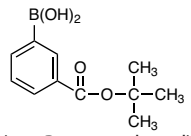
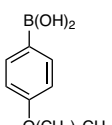
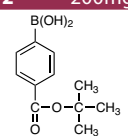
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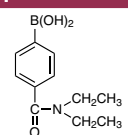
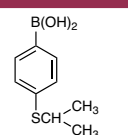
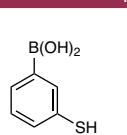
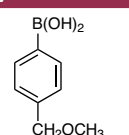
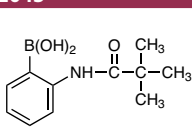
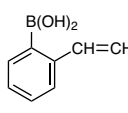
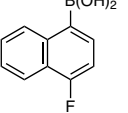
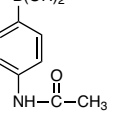
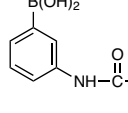
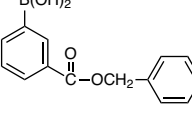
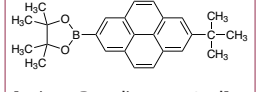
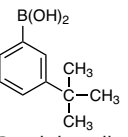
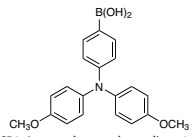
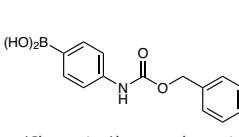
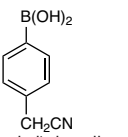
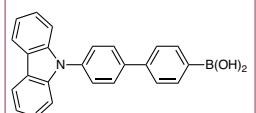
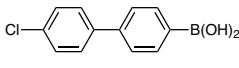
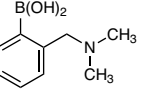
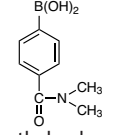
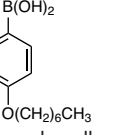
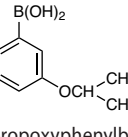
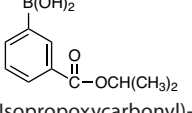
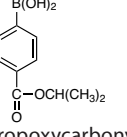
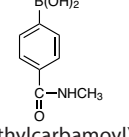
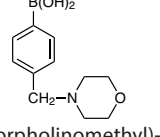
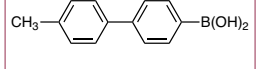
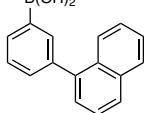
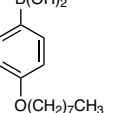
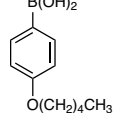
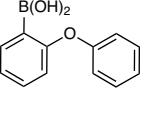
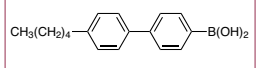
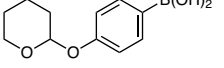
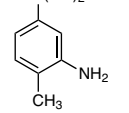
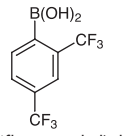
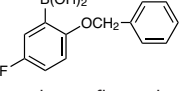
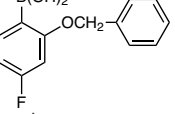
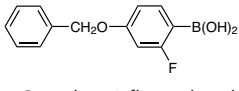
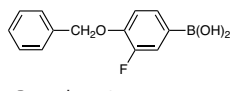
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CAS RN: 123088-59-5

C2501 1g 5g

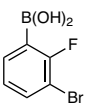
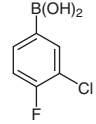
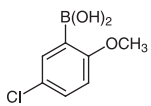
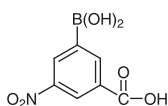
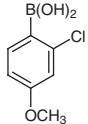
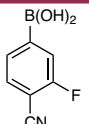
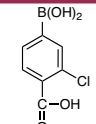
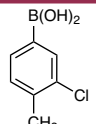
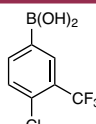
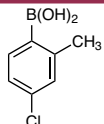
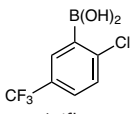
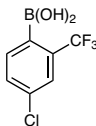
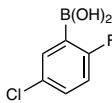
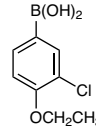
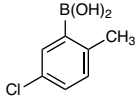
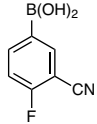
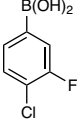
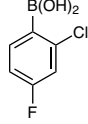
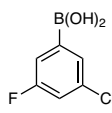
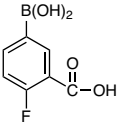
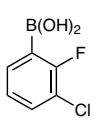
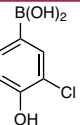
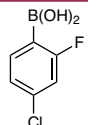
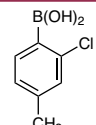
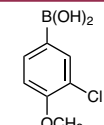
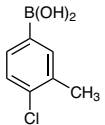
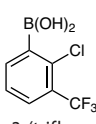
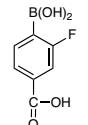
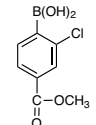
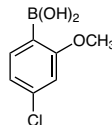
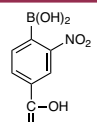
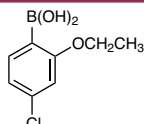
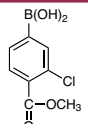
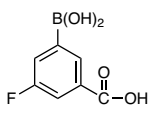
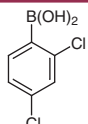
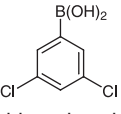
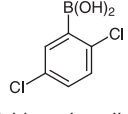
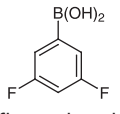
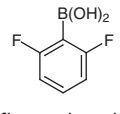
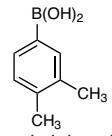
2-Carboxyphenylboronic Acid  
CAS RN: 149105-19-1

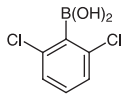
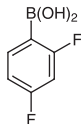
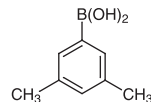
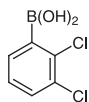
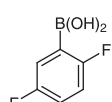
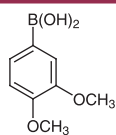
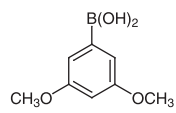
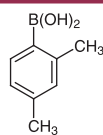
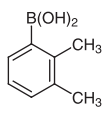
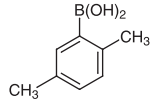
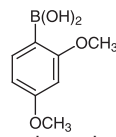
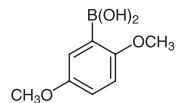
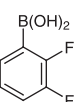
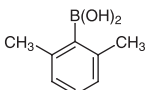
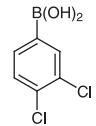
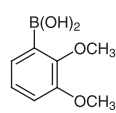
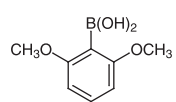
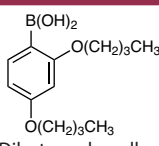
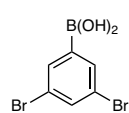
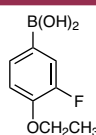
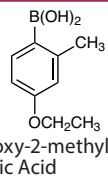
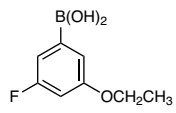
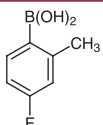
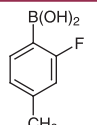
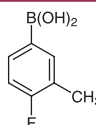
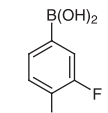
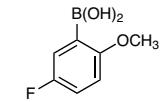
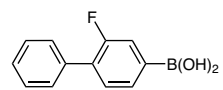
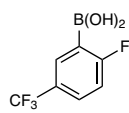
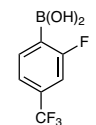
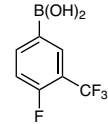
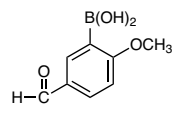
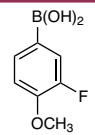
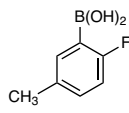
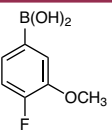
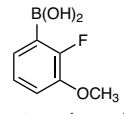
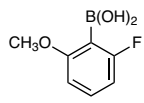
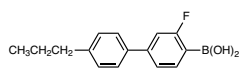
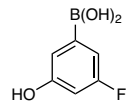
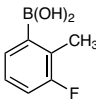
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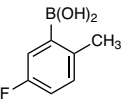
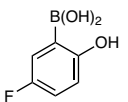
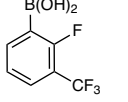
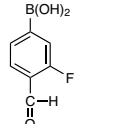
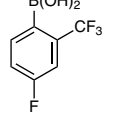
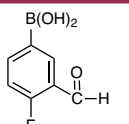
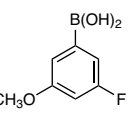
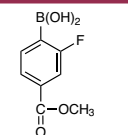
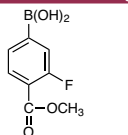
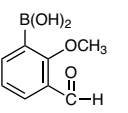
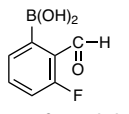
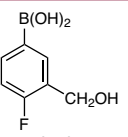
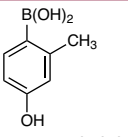
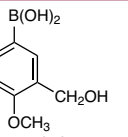
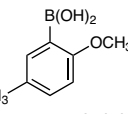
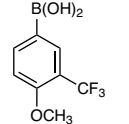
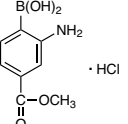
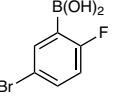
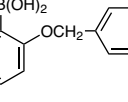
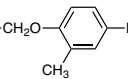
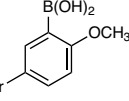
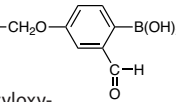
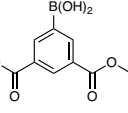
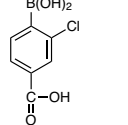
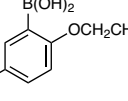
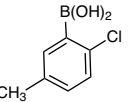
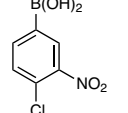
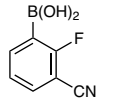
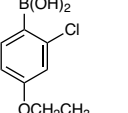
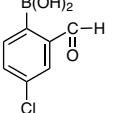
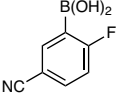
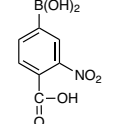
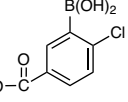
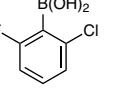
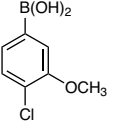
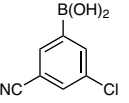
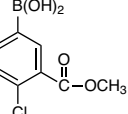
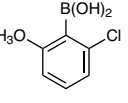
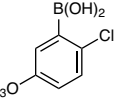
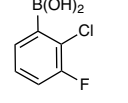
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<b>M1793</b> 5g  3-(Methylthio)phenylboronic Acid CAS RN: 128312-11-8	<b>M1458</b> 1g 5g  4-(Methylthio)phenylboronic Acid CAS RN: 98546-51-1	<b>N0811</b> 1g 5g  2-Nitrophenylboronic Acid CAS RN: 5570-19-4	<b>N0563</b> 5g 25g  3-Nitrophenylboronic Acid CAS RN: 13331-27-6	<b>N0812</b> 1g 5g  4-Nitrophenylboronic Acid CAS RN: 24067-17-2
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<p><b>P2717</b> 1g 5g</p>  <p>4'-Pentyl-4-biphenylboronic Acid CAS RN: 121554-18-5</p>	<p><b>T3325</b> 5g 25g</p>  <p>4-(Tetrahydro-2H-pyran-2-yloxy)phenylboronic Acid CAS RN: 182281-01-2</p>	<p><b>アリール ボロン酸 (二置換)</b></p>		<p><b>A2745</b> 1g 5g</p>  <p>3-Amino-4-methylphenylboronic Acid CAS RN: 22237-12-3</p>
<p><b>B3022</b> 1g 5g</p>  <p>2,4-Bis(trifluoromethyl)phenylboronic Acid CAS RN: 153254-09-2</p>	<p><b>B3683</b> 1g 5g</p>  <p>2-Benzyloxy-5-fluorophenylboronic Acid CAS RN: 779331-47-4</p>	<p><b>B3779</b> 1g 5g</p>  <p>2-Benzyloxy-4-fluorophenylboronic Acid CAS RN: 848779-87-3</p>	<p><b>B4638</b> 200mg 1g</p>  <p>4-Benzyloxy-2-fluorophenylboronic Acid CAS RN: 166744-78-1</p>	<p><b>B4639</b> 1g 5g</p>  <p>4-Benzyloxy-3-fluorophenylboronic Acid CAS RN: 133057-83-7</p>

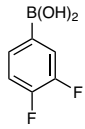
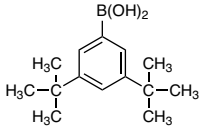
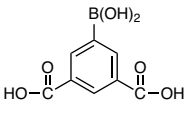
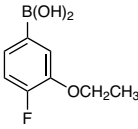
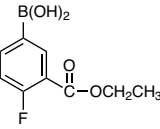
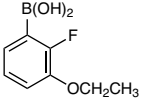
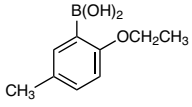
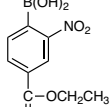
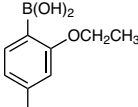
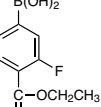
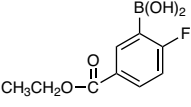
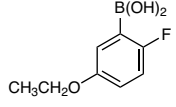
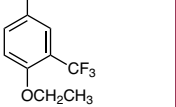
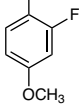
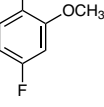
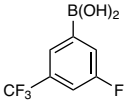
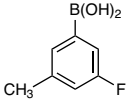
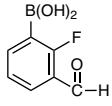
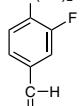
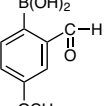
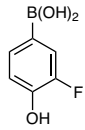
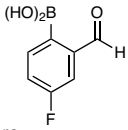
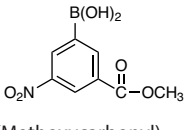
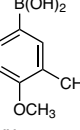
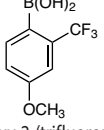
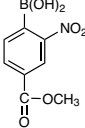
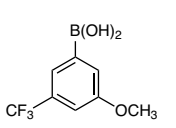
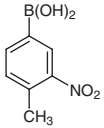
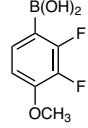
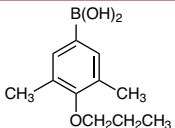
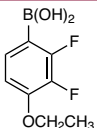
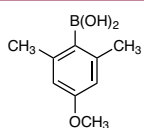
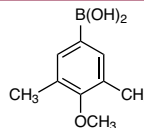
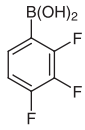
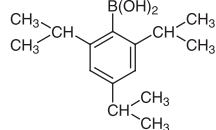
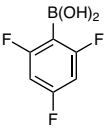
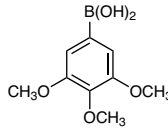
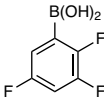


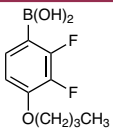
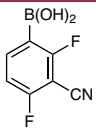
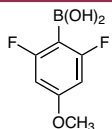
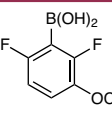
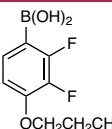
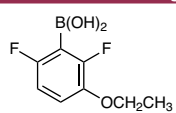
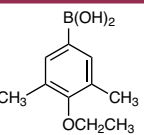
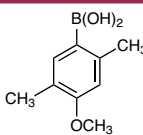
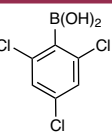
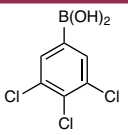
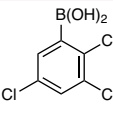
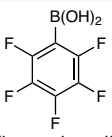
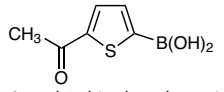
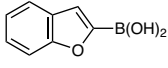
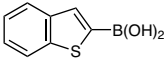
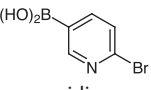
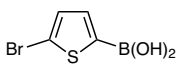
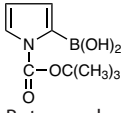
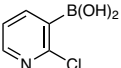

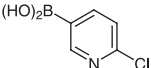
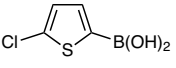
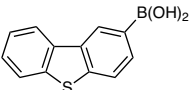
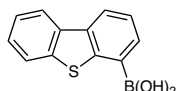
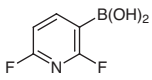
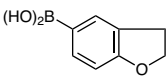
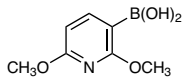
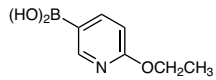
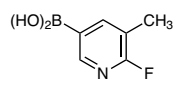
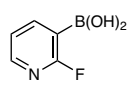
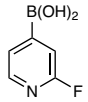
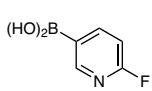
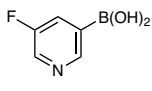
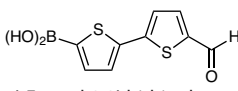
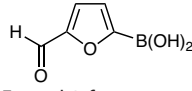
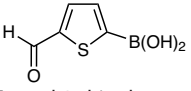
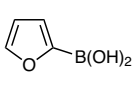
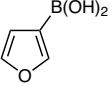
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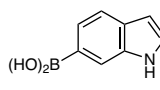
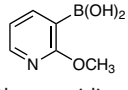
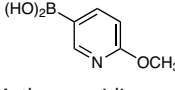
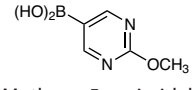
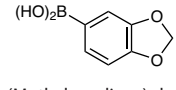
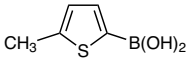
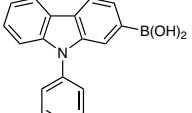
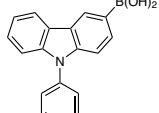
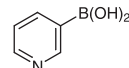

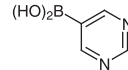
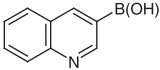


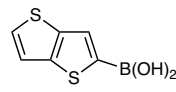
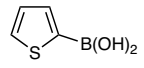
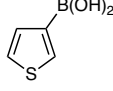
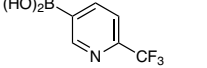
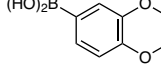
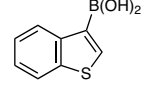
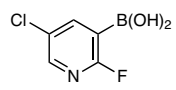
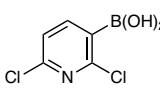
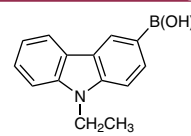
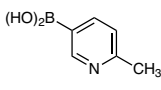
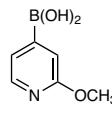
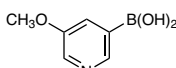
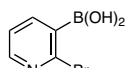
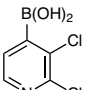
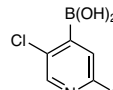
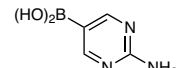
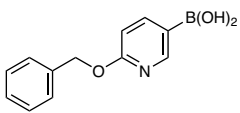
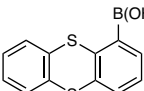
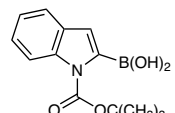
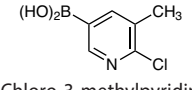
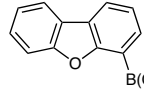
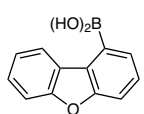
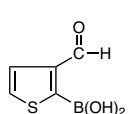
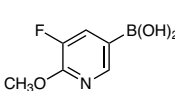
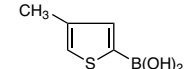
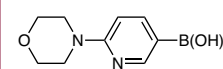
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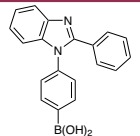
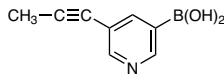
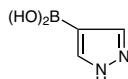

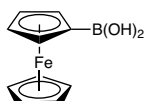
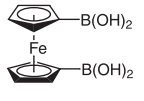
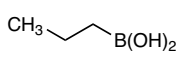
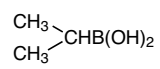
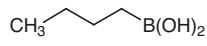
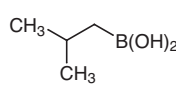
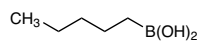
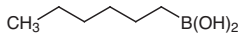
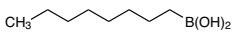
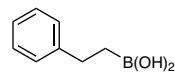
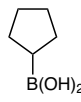

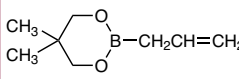
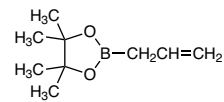
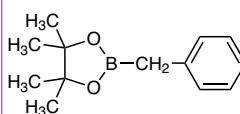
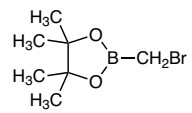
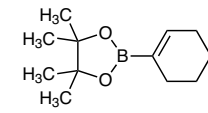
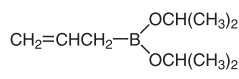
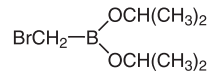
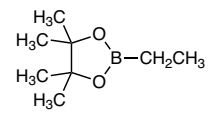
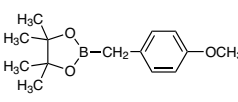
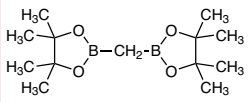
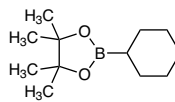
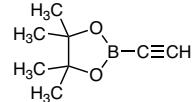
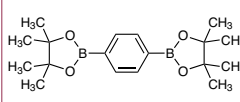
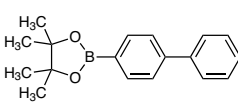
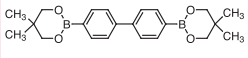
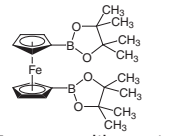
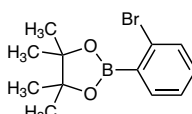
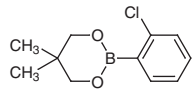
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鈴木-宮浦クロスカップリング反応

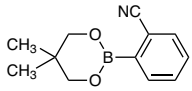
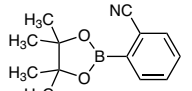
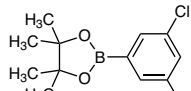
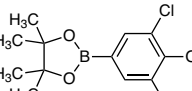
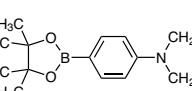
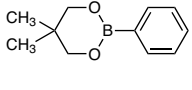
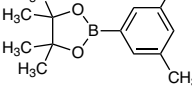
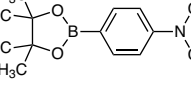
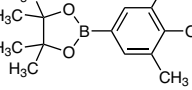
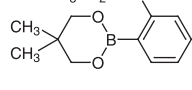
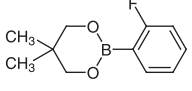
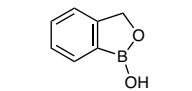
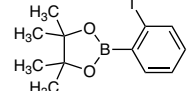
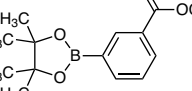
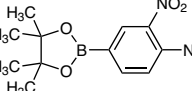
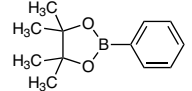
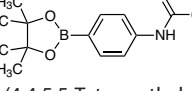
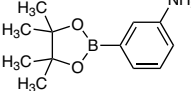
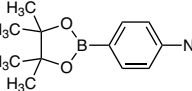
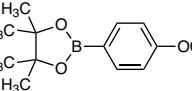
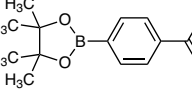
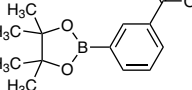
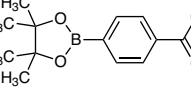
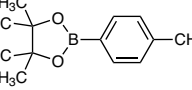
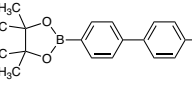
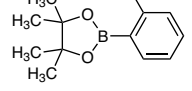
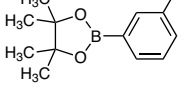
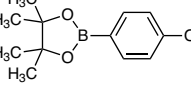
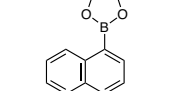
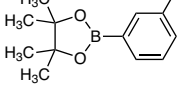
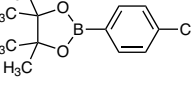
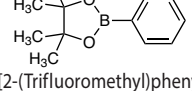
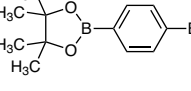
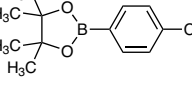
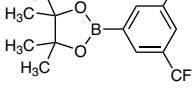
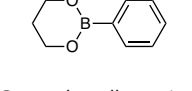
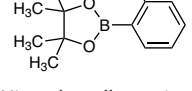
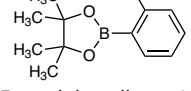
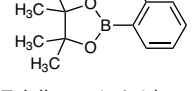
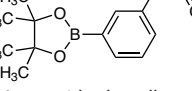
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<p><b>E1188</b> 1g</p>  <p>3-Ethoxy-2-fluorophenylboronic Acid CAS RN: 855230-61-4</p>	<p><b>E1189</b> 1g 5g</p>  <p>2-Ethoxy-5-methylphenylboronic Acid CAS RN: 123291-97-4</p>	<p><b>E1203</b> 1g</p>  <p>4-Ethoxycarbonyl-2-nitrophenylboronic Acid CAS RN: 5785-70-6</p>	<p><b>E1204</b> 1g 5g</p>  <p>4-Ethoxycarbonyl-2-nitrophenylboronic Acid CAS RN: 480438-58-2</p>	<p><b>E1207</b> 1g 5g</p>  <p>4-(Ethoxycarbonyl)-3-fluorophenylboronic Acid CAS RN: 874288-38-7</p>
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<b>B5174</b> 1g 5g  4-Butoxy-2,3-difluorophenylboronic Acid CAS RN: 156487-12-6	<b>C3226</b> 200mg 1g  3-Cyano-2,4-difluorophenylboronic Acid CAS RN: 871940-31-7	<b>D4728</b> 1g  2,6-Difluoro-4-methoxyphenylboronic Acid CAS RN: 406482-20-0	<b>D5006</b> 1g 5g  2,6-Difluoro-3-methoxyphenylboronic Acid CAS RN: 870779-02-5	<b>D5083</b> 1g 5g  2,3-Difluoro-4-propoxyphenylboronic Acid CAS RN: 212837-49-5
<b>E1210</b> 1g 5g  3-Ethoxy-2,6-difluorophenylboronic Acid CAS RN: 849062-00-6	<b>E1216</b> 1g 5g  4-Ethoxy-3,5-dimethylphenylboronic Acid CAS RN: 850568-59-1	<b>M2838</b> 1g  4-Methoxy-2,5-dimethylphenylboronic Acid CAS RN: 246023-54-1	<b>T3382</b> 1g  2,4,6-Trichlorophenylboronic Acid CAS RN: 73852-18-3	<b>T3383</b> 1g 5g  3,4,5-Trichlorophenylboronic Acid CAS RN: 862248-93-9
<b>T3851</b> 1g 5g  2,3,5-Trichlorophenylboronic Acid CAS RN: 212779-19-6	<b>アリール ボロン酸 (五置換)</b>	<b>P1904</b> 1g 5g  Pentafluorophenylboronic Acid CAS RN: 1582-24-7	<b>ヘテロ アリール ボロン酸</b>	<b>A2364</b> 5g 25g  5-Acetyl-2-thiopheneboronic Acid CAS RN: 206551-43-1
<b>B2978</b> 1g  Benzofuran-2-boronic Acid CAS RN: 98437-24-2	<b>B2893</b> 1g 5g 25g  Benzo[b]thiophene-2-ylboronic Acid CAS RN: 98437-23-1	<b>B3307</b> 1g 5g  2-Bromopyridine-5-boronic Acid CAS RN: 223463-14-7	<b>B2862</b> 1g 5g  5-Bromo-2-thiopheneboronic Acid CAS RN: 162607-17-2	<b>B4063</b> 1g 5g  1-(tert-Butoxycarbonyl)-2-pyrroleboronic Acid CAS RN: 135884-31-0
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<b>D4057</b> 1g 5g  Dibenzothiophene-4-boronic Acid CAS RN: 108847-20-7	<b>D4006</b> 1g 5g  2,6-Difluoro-3-pyridineboronic Acid CAS RN: 136466-94-9	<b>D4711</b> 200mg  2,3-Dihydrobenzofuran-5-boronic Acid CAS RN: 227305-69-3	<b>D4690</b> 1g 5g  2,6-Dimethoxypyridine-3-boronic Acid CAS RN: 221006-70-8	<b>E1115</b> 1g 5g  2-Ethoxypyridine-5-boronic Acid CAS RN: 612845-44-0
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<b>F0548</b> 1g  5-Formyl-2,2'-bithiophene-5-boronic Acid CAS RN: 1369328-62-0	<b>F0611</b> 1g 5g  5-Formyl-2-furanboronic Acid CAS RN: 27329-70-0	<b>F0549</b> 1g 5g  5-Formyl-2-thiopheneboronic Acid CAS RN: 4347-33-5	<b>F0394</b> 1g 5g  2-Furylboronic Acid CAS RN: 13331-23-2	<b>F0438</b> 1g 5g  3-Furylboronic Acid CAS RN: 55552-70-0

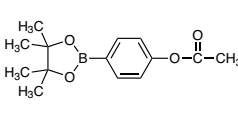
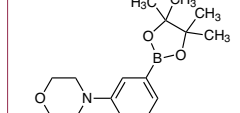
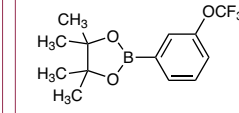
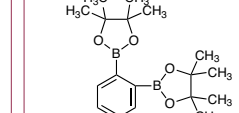
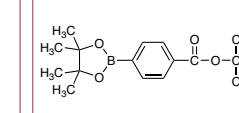
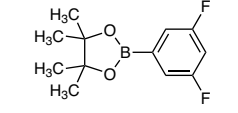
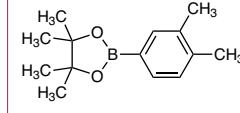
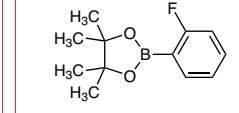
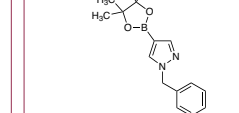
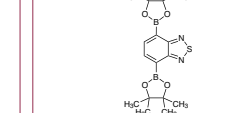
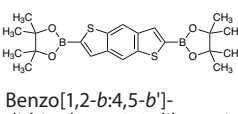
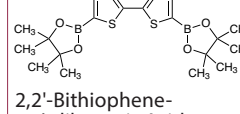
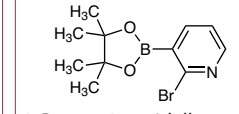
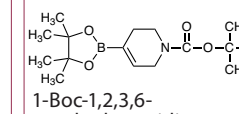
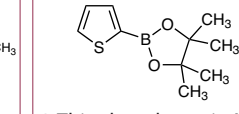
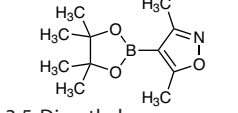
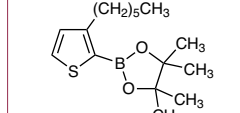
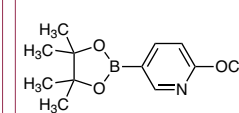
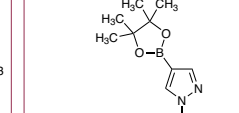
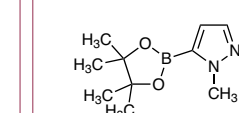
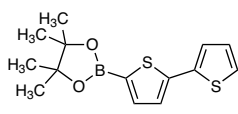
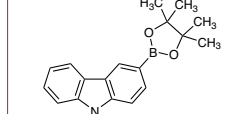
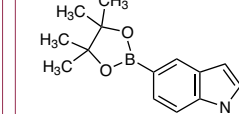
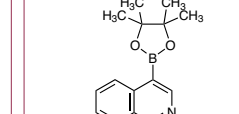
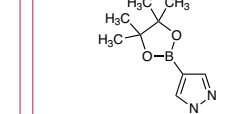
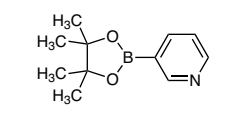
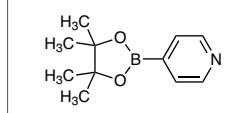
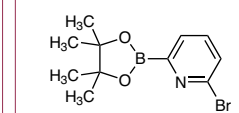
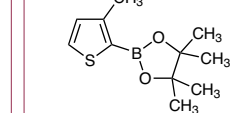
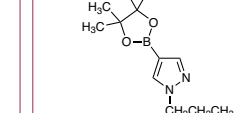
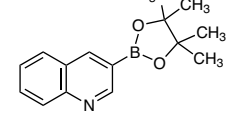
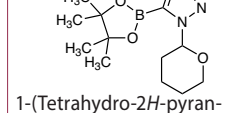
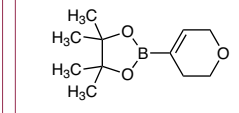
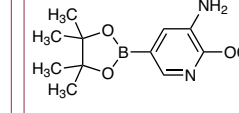
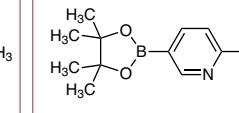
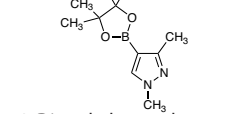
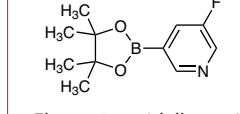
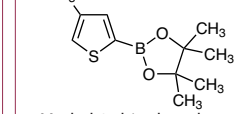
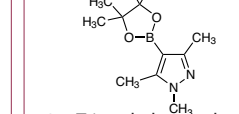
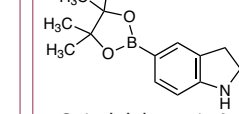
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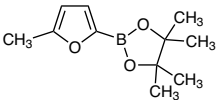
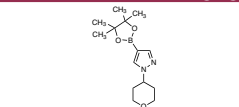
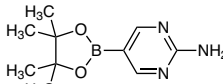
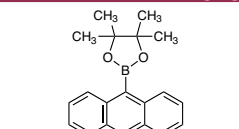
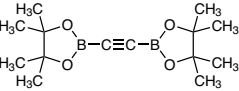
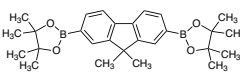
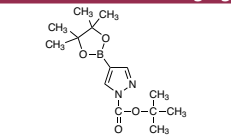
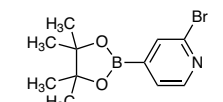
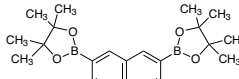
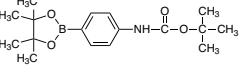
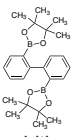
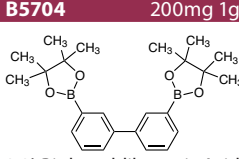
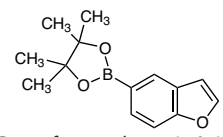
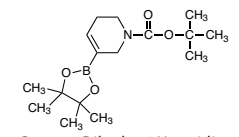
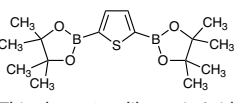
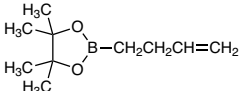
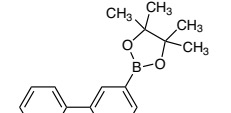
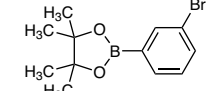
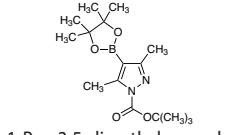
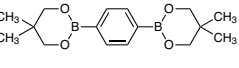
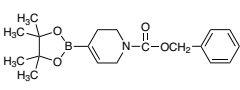
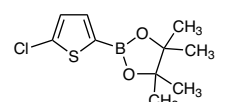
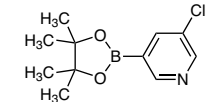
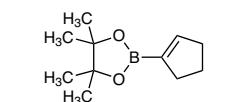
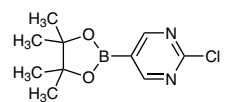
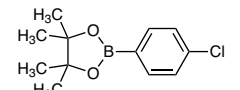
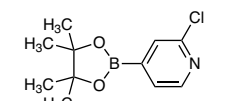
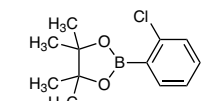
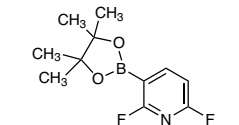
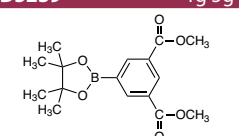
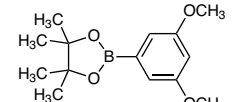
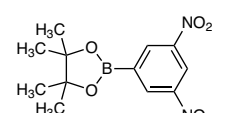
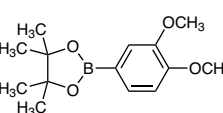
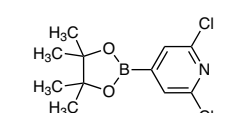
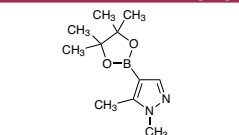
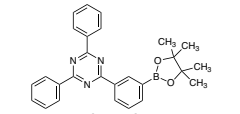
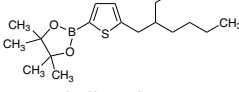
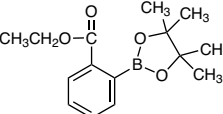
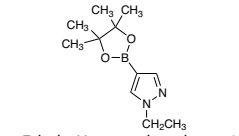
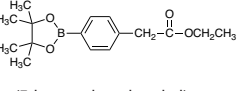
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<p><b>ボロン酸エステル</b></p>			<p><b>A2574</b> 1g 5g</p>  <p>2-Allyl-5,5-dimethyl-1,3,2-dioxaborinane CAS RN: 911482-75-2</p>	<p><b>A2157</b> 1g 5g</p>  <p>Allylboronic Acid Pinacol Ester CAS RN: 72824-04-5</p>	<p><b>B3448</b> 1g 5g</p>  <p>Benzylboronic Acid Pinacol Ester CAS RN: 87100-28-5</p>
<p><b>B3199</b> 1g 5g</p>  <p>(Bromomethyl)boronic Acid Pinacol Ester CAS RN: 166330-03-6</p>	<p><b>C2707</b> 1g</p>  <p>1-Cyclohexeneboronic Acid Pinacol Ester CAS RN: 141091-37-4</p>	<p><b>D3738</b> 1g 5g</p>  <p>Allylboronic Acid Diisopropyl Ester CAS RN: 51851-79-7</p>	<p><b>D3649</b> 1g 5g</p>  <p>(Bromomethyl)boronic Acid Diisopropyl Ester CAS RN: 137297-49-5</p>	<p><b>E1116</b> 1g 5g</p>  <p>Ethylboronic Acid Pinacol Ester CAS RN: 82954-89-0</p>	
<p><b>M2071</b> 5g</p>  <p>4-Methoxybenzylboronic Acid Pinacol Ester CAS RN: 475250-52-3</p>	<p><b>B4103</b> 1g 5g</p>  <p>Bis[(pinacolato)boryl]-methane CAS RN: 78782-17-9</p>	<p><b>C3101</b> 1g 5g</p>  <p>Cyclohexylboronic Acid Pinacol Ester CAS RN: 87100-15-0</p>	<p><b>E1074</b> 200mg 1g</p>  <p>Ethynylboronic Acid Pinacol Ester CAS RN: 347389-74-6</p>	<p><b>B4633</b> 5g 25g</p>  <p>1,4-Benzenediboronic Acid Bis(pinacolato) Ester CAS RN: 99770-93-1</p>	
<p><b>B3019</b> 5g</p>  <p>4-Biphenylboronic Acid Pinacol Ester CAS RN: 1444T32-80-4</p>	<p><b>B3151</b> 1g</p>  <p>4,4'-Biphenyldiboronic Acid Bis(neopentyl Glycol)-Ester CAS RN: 5487-93-4</p>	<p><b>B3501</b> 1g 5g</p>  <p>1,1'-Ferrocenediboronic Acid Bis(pinacolato) Ester CAS RN: 737776-93-1</p>	<p><b>B2828</b> 1g 5g</p>  <p>2-Bromophenylboronic Acid Pinacol Ester CAS RN: 269410-06-2</p>	<p><b>C2004</b> 1g</p>  <p>2-Chlorophenylboronic Acid Neopentyl Glycol Ester CAS RN: 346656-42-6</p>	

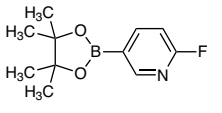
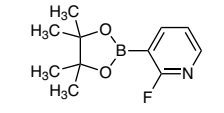
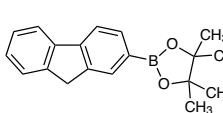
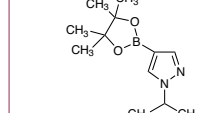
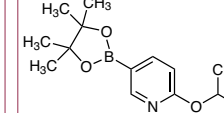
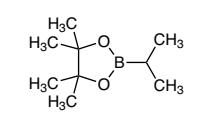
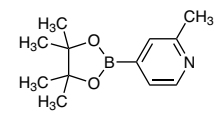
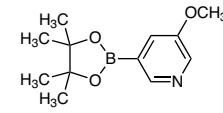
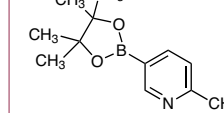
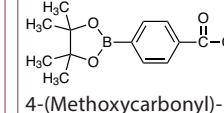
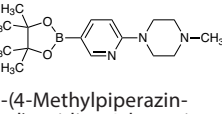
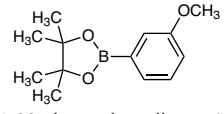
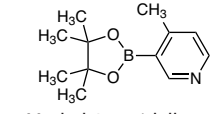
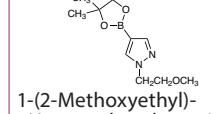
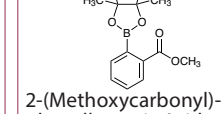
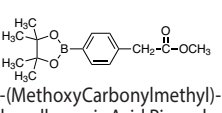
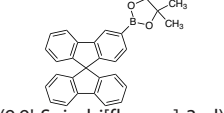
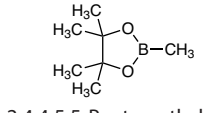
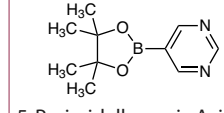
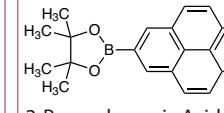
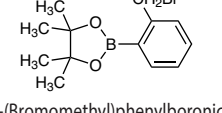
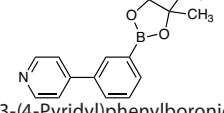
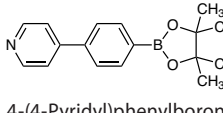
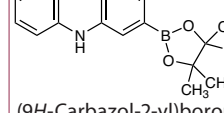
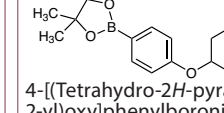
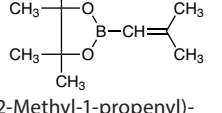
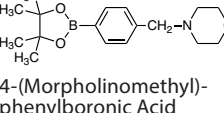
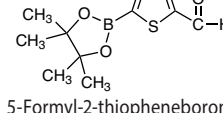
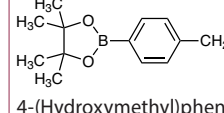
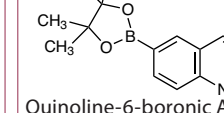
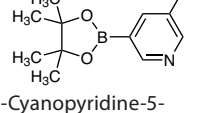
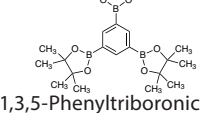
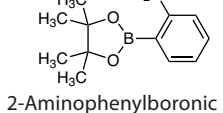
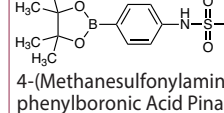
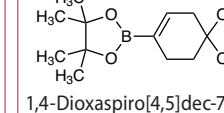
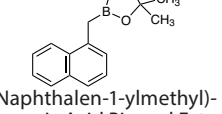
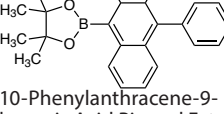
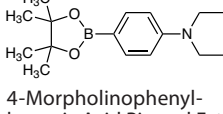
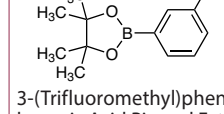
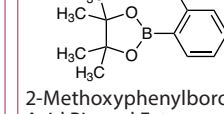
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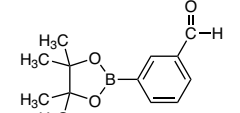
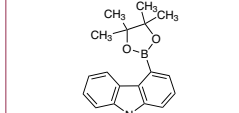
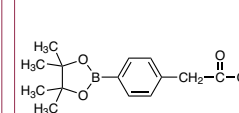
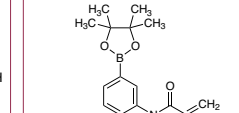
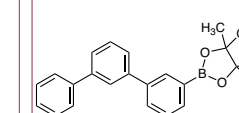
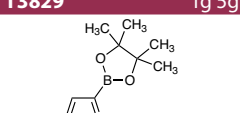
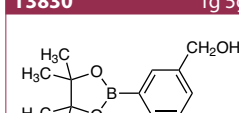
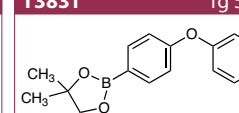
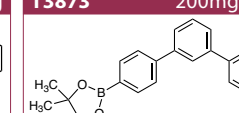
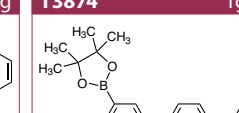
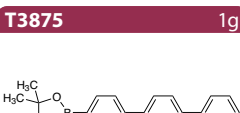
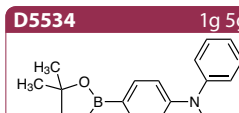
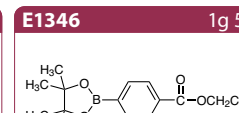
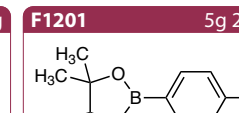
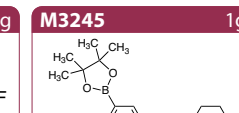
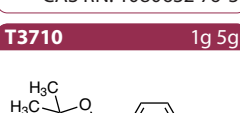
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<p><b>T1952</b> 1g 5g</p>  <p>2-Hydroxyphenylboronic Acid Pinacol Ester CAS RN: 269409-97-4</p>	<p><b>T1953</b> 1g 5g</p>  <p>3-Hydroxyphenylboronic Acid Pinacol Ester CAS RN: 214360-76-6</p>	<p><b>T1954</b> 1g 5g</p>  <p>4-Hydroxyphenylboronic Acid Pinacol Ester CAS RN: 269409-70-3</p>	<p><b>T3218</b> 1g 5g</p>  <p>Naphthalene-1-boronic Acid Pinacol Ester CAS RN: 68716-52-9</p>	<p><b>T3219</b> 1g 5g</p>  <p>m-Tolylboronic Acid Pinacol Ester CAS RN: 253342-48-2</p>
<p><b>T2888</b> 1g 5g</p>  <p>p-Tolylboronic Acid Pinacol Ester CAS RN: 195062-57-8</p>	<p><b>T2428</b> 5g</p>  <p>2-[2-(Trifluoromethyl)phenyl]-4,4,5,5-tetramethyl-1,3,2-dioxaborolane CAS RN: 1073339-21-5</p>	<p><b>B4771</b> 1g 5g</p>  <p>4-Bromophenylboronic Acid Pinacol Ester CAS RN: 68716-49-4</p>	<p><b>T3103</b> 1g 5g</p>  <p>4-(Trifluoromethyl)phenylboronic Acid Pinacol Ester CAS RN: 214360-65-3</p>	<p><b>B5095</b> 1g 5g</p>  <p>3,5-Bis(trifluoromethyl)phenylboronic Acid Pinacol Ester CAS RN: 69807-91-6</p>
<p><b>C2993</b> 1g 5g</p>  <p>2-Cyanophenylboronic Acid 1,3-Propanediol Ester CAS RN: 172732-52-4</p>	<p><b>N1006</b> 1g 5g</p>  <p>2-Nitrophenylboronic Acid Pinacol Ester CAS RN: 190788-59-1</p>	<p><b>T3161</b> 1g 5g</p>  <p>2-Formylphenylboronic Acid Pinacol Ester CAS RN: 380151-85-9</p>	<p><b>T3195</b> 1g 5g</p>  <p>o-Tolylboronic Acid Pinacol Ester CAS RN: 195062-59-0</p>	<p><b>T3216</b> 1g</p>  <p>3-Acetamidophenylboronic Acid Pinacol Ester CAS RN: 480424-93-9</p>



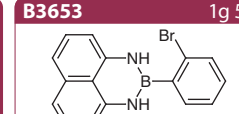
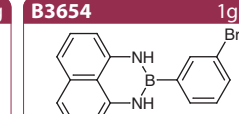
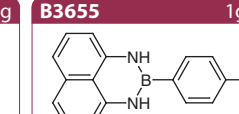
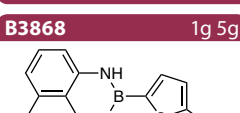
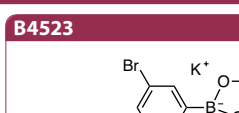
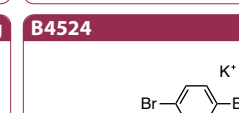
<b>T3224</b> 1g 5g  4-Acetoxyphenylboronic Acid Pinacol Ester CAS RN: 480424-70-2	<b>T3237</b> 1g  3-(Morpholino)phenylboronic Acid Pinacol Ester CAS RN: 852227-95-3	<b>T3377</b> 1g 5g  3-(Trifluoromethoxy)phenylboronic Acid Pinacol Ester CAS RN: 262376-31-8	<b>B5069</b> 1g 5g  1,2-Benzenediboronic Acid Bis(pinacol) Ester CAS RN: 269410-07-3	<b>B5132</b> 1g 5g  4-Boc-phenylboronic Acid Pinacol Ester CAS RN: 850568-72-8
<b>D5017</b> 1g 5g  3,5-Difluorophenylboronic Acid Pinacol Ester CAS RN: 863868-36-4	<b>D5085</b> 1g 5g  3,4-Dimethylphenylboronic Acid Pinacol Ester CAS RN: 401797-00-0	<b>F1085</b> 5g 25g  2-Fluorophenylboronic Acid Pinacol Ester CAS RN: 876062-39-4	<b>B4364</b> 1g 5g  1-Benzylpyrazole-4-boronic Acid Pinacol Ester CAS RN: 761446-45-1	<b>B3573</b> 1g 5g  2,1,3-Benzothiadiazole-4,7-diboronic Acid Bis(pinacol) Ester CAS RN: 934365-16-9
<b>B4158</b> 1g 5g  Benzo[1,2-b:4,5-b']-dithiophene-2,6-diboronic Acid Bis(pinacol) Ester CAS RN: 861398-06-3	<b>B3363</b> 5g  2,2'-Bithiophene-5,5'-diboronic Acid Bis(pinacol) Ester CAS RN: 239075-02-6	<b>B3749</b> 1g 5g  2-Bromo-3-pyridylboronic Acid Pinacol Ester CAS RN: 452972-12-2	<b>B4051</b> 1g  1-Boc-1,2,3,6-tetrahydropyridine-4-boronic Acid Pinacol Ester CAS RN: 286961-14-6	<b>T2924</b> 1g 5g  2-Thiopheneboronic Acid Pinacol Ester CAS RN: 193978-23-3
<b>D3772</b> 1g 5g  3,5-Dimethyl-4-isoxazoleboronic Acid Pinacol Ester CAS RN: 832114-00-8	<b>H1298</b> 1g 5g 25g  3-Hexyl-2-thiopheneboronic Acid Pinacol Ester CAS RN: 850881-09-3	<b>M2650</b> 1g 5g  6-Methoxy-3-pyridylboronic Acid Pinacol Ester CAS RN: 445264-61-9	<b>M2339</b> 1g 5g  1-Methylpyrazole-4-boronic Acid Pinacol Ester CAS RN: 761446-44-0	<b>M2681</b> 5g  1-Methylpyrazole-5-boronic Acid Pinacol Ester CAS RN: 847818-74-0
<b>T2518</b> 1g 5g 25g  2,2'-Bithiophene-5-boronic Acid Pinacol Ester CAS RN: 479719-88-5	<b>T3117</b> 1g 5g  (9H-Carbazol-3-yl)boronic Acid Pinacol Ester CAS RN: 855738-89-5	<b>I0590</b> 1g 5g  5-Indoleboronic Acid Pinacol Ester CAS RN: 269410-24-4	<b>I0739</b> 1g 5g  Isoquinoline-4-boronic Acid Pinacol Ester CAS RN: 685103-98-4	<b>T2756</b> 1g 5g  4-Pyrazoleboronic Acid Pinacol Ester CAS RN: 269410-08-4
<b>T2345</b> 1g 5g 25g  3-Pyridylboronic Acid Pinacol Ester CAS RN: 329214-79-1	<b>T2349</b> 1g 5g  4-Pyridylboronic Acid Pinacol Ester CAS RN: 181219-01-2	<b>B5077</b> 1g 5g  6-Bromo-2-pyridylboronic Acid Pinacol Ester CAS RN: 651358-83-7	<b>M2391</b> 1g 5g  3-Methyl-2-thiopheneboronic Acid Pinacol Ester CAS RN: 885692-91-1	<b>P2277</b> 1g 5g  1-Propylpyrazole-4-boronic Acid Pinacol Ester CAS RN: 827614-69-7
<b>T3180</b> 1g  Quinoline-3-boronic Acid Pinacol Ester CAS RN: 171364-85-5	<b>T3215</b> 1g 5g  1-(Tetrahydro-2H-pyran-2-yl)-1H-pyrazole-5-boronic Acid Pinacol Ester CAS RN: 903550-26-5	<b>T3217</b> 1g  3,6-Dihydro-2H-pyran-4-boronic Acid Pinacol Ester CAS RN: 287944-16-5	<b>A2993</b> 200mg 1g  3-Amino-2-methoxypyridine-5-boronic Acid Pinacol Ester CAS RN: 893440-50-1	<b>C3126</b> 200mg 1g  6-Cyano-3-pyridylboronic Acid Pinacol Ester CAS RN: 741709-63-7
<b>D5184</b> 1g  1,3-Dimethylpyrazole-4-boronic Acid Pinacol Ester CAS RN: 1046832-21-6	<b>F1026</b> 1g  5-Fluoro-3-pyridylboronic Acid Pinacol Ester CAS RN: 719268-92-5	<b>M2647</b> 1g 5g  4-Methyl-2-thiopheneboronic Acid Pinacol Ester CAS RN: 635305-48-5	<b>T3409</b> 200mg 1g  1,3,5-Trimethylpyrazole-4-boronic Acid Pinacol Ester CAS RN: 844891-04-9	<b>T3512</b> 1g 5g  5-Oxindoleboronic Acid Pinacol Ester CAS RN: 837392-64-0

<p><b>T3582</b> 1g 5g</p>  <p>(5-Methylfuran-2-yl)-boronic Acid Pinacol Ester CAS RN: 338998-93-9</p>	<p><b>T3668</b> 200mg 1g</p>  <p>1-(Tetrahydro-2H-pyran-4-yl)-1H-pyrazole-4-boronic Acid Pinacol Ester CAS RN: 1040377-03-4</p>	<p><b>A3087</b> 1g 5g</p>  <p>2-Aminopyrimidine-5-boronic Acid Pinacol Ester CAS RN: 402960-38-7</p>	<p><b>A3184</b> 1g 5g</p>  <p>2-(9-Anthryl)-4,4,5,5-tetramethyl-1,3,2-dioxaborolane CAS RN: 709022-63-9</p>	<p><b>B4561</b> 1g</p>  <p>Acetylene-1,2-diyl Bis(boronic Acid Pinacol Ester) CAS RN: 1010840-17-1</p>
<p><b>B5157</b> 1g 5g</p>  <p>9,9-Dimethylfluorene-2,7-diboronic Acid Bis(pinacol) Ester CAS RN: 325129-69-9</p>	<p><b>B5203</b> 1g 5g</p>  <p>1-Boc-pyrazolyl-4-boronic Acid Pinacol Ester CAS RN: 552846-17-0</p>	<p><b>B5238</b> 1g</p>  <p>9,9-Dimethylfluorene-2,7-diboronic Acid Bis(pinacol) Ester CAS RN: 458532-82-6</p>	<p><b>B5288</b> 1g</p>  <p>2,7-Naphthalenediboronic Acid Bis(pinacol) Ester CAS RN: 853377-10-3</p>	<p><b>B5588</b> 1g 5g</p>  <p>4-(Boc-amino)phenylboronic Acid Pinacol Ester CAS RN: 330793-01-6</p>
<p><b>B5703</b> 200mg 1g</p>  <p>2,2'-Biphenyldiboronic Acid Bis(pinacol) Ester CAS RN: 398128-09-1</p>	<p><b>B5704</b> 200mg 1g</p>  <p>3,3'-Biphenyldiboronic Acid Bis(pinacol) Ester CAS RN: 850264-92-5</p>	<p><b>B5823</b> 250mg 1g</p>  <p>Benzofuran-5-boronic Acid Pinacol Ester CAS RN: 519054-55-8</p>	<p><b>B5844</b> 200mg 1g</p>  <p>1-Boc-5,6-Dihydro-2H-pyridine-3-boronic Acid Pinacol Ester CAS RN: 885693-20-9</p>	<p><b>B5871</b> 1g 5g</p>  <p>Thiophene-2,5-diboronic Acid Bis(pinacol) Ester CAS RN: 175361-81-6</p>
<p><b>B5960</b> 1g 5g</p>  <p>(3-Buten-1-yl)boronic Acid Pinacol Ester CAS RN: 331958-92-0</p>	<p><b>B6023</b> 1g 5g</p>  <p>3-Biphenylboronic Acid Pinacol Ester CAS RN: 912844-88-3</p>	<p><b>B6024</b> 1g 5g</p>  <p>3-Bromophenylboronic Acid Pinacol Ester CAS RN: 594823-67-3</p>	<p><b>B6026</b> 200mg 1g</p>  <p>1-Boc-3,5-dimethylpyrazole-4-boronic Acid Pinacol Ester CAS RN: 1073354-70-7</p>	<p><b>B6050</b> 1g</p>  <p>1,4-Benzenediboronic Acid Bis(neopentyl Glycol) Ester CAS RN: 5565-36-6</p>
<p><b>C3243</b> 1g 5g</p>  <p>1-Cbz-1,2,3,6-tetrahydropyridine-4-boronic Acid Pinacol Ester CAS RN: 286961-15-7</p>	<p><b>C3301</b> 1g 5g</p>  <p>5-Chloro-2-thiopheneboronic Acid Pinacol Ester CAS RN: 635305-24-7</p>	<p><b>C3367</b> 200mg 1g</p>  <p>5-Chloropyridine-3-boronic Acid Pinacol Ester CAS RN: 865186-94-3</p>	<p><b>C3385</b> 1g 5g</p>  <p>1-Cyclopenteneboronic Acid Pinacol Ester CAS RN: 287944-10-9</p>	<p><b>C3436</b> 1g 5g</p>  <p>2-Chloropyrimidine-5-boronic Acid Pinacol Ester CAS RN: 1003845-08-6</p>
<p><b>C3500</b> 5g 25g</p>  <p>4-Chlorophenylboronic Acid Pinacol Ester CAS RN: 195062-61-4</p>	<p><b>C3529</b> 1g 5g</p>  <p>2-Chloropyridine-4-boronic Acid Pinacol Ester CAS RN: 458532-84-8</p>	<p><b>C3612</b> 1g 5g</p>  <p>2-Chlorophenylboronic Acid Pinacol Ester CAS RN: 870195-94-1</p>	<p><b>D5142</b> 200mg 1g</p>  <p>2,6-Difluoropyridine-3-boronic Acid Pinacol Ester CAS RN: 1072945-00-6</p>	<p><b>D5239</b> 1g 5g</p>  <p>3,5-Bis(methoxycarbonyl)-benzeneboronic Acid Pinacol Ester CAS RN: 944392-68-1</p>
<p><b>D5360</b> 1g 5g</p>  <p>3,5-Dimethoxyphenylboronic Acid Pinacol Ester CAS RN: 365564-07-4</p>	<p><b>D5431</b> 200mg 1g</p>  <p>3,5-Dinitrophenylboronic Acid Pinacol Ester CAS RN: 428820-95-5</p>	<p><b>D5533</b> 1g 5g</p>  <p>3,4-Dimethoxyphenylboronic Acid Pinacol Ester CAS RN: 365564-10-9</p>	<p><b>D5574</b> 1g 5g</p>  <p>2,6-Dichloropyridine-4-boronic Acid Pinacol Ester CAS RN: 408492-27-3</p>	<p><b>D5575</b> 200mg 1g</p>  <p>1,5-Dimethyl-1H-pyrazole-4-boronic Acid Pinacol Ester CAS RN: 1036991-40-8</p>
<p><b>D5591</b> 1g 5g</p>  <p>3-(4,6-Diphenyl-1,3,5-triazine-2-yl)phenylboronic Acid Pinacol Ester CAS RN: 1269508-31-7</p>	<p><b>E1295</b> 1g</p>  <p>5-(2-Ethylhexyl)-2-thiopheneboronic Acid Pinacol Ester CAS RN: 1390584-88-9</p>	<p><b>E1311</b> 1g 5g</p>  <p>2-Ethoxycarbonylphenylboronic Acid Pinacol Ester CAS RN: 269409-99-6</p>	<p><b>E1348</b> 1g 5g</p>  <p>1-Ethyl-1H-pyrazole-4-boronic Acid Pinacol Ester CAS RN: 847818-70-6</p>	<p><b>E1393</b> 1g</p>  <p>4-(Ethoxycarbonylmethyl)phenylboronic Acid Pinacol Ester CAS RN: 859169-20-3</p>

<b>F1094</b> 1g 5g  6-Fluoropyridine-3-boronic Acid Pinacol Ester CAS RN: 444120-95-0	<b>F1105</b> 1g 5g  2-Fluoropyridine-3-boronic Acid Pinacol Ester CAS RN: 452972-14-4	<b>F1245</b> 5g 25g  9H-Fluorene-2-boronic Acid Pinacol Ester CAS RN: 922706-40-9	<b>I1085</b> 250mg 1g  1-Isopropyl-1H-pyrazole-4-boronic Acid Pinacol Ester CAS RN: 879487-10-2	<b>I1099</b> 200mg 1g  6-Isopropoxy-3-pyridylboronic Acid Pinacol Ester CAS RN: 871839-91-7
<b>I1109</b> 1g  Isopropylboronic Acid Pinacol Ester CAS RN: 76347-13-2	<b>M2867</b> 1g 5g  2-Methylpyridine-4-boronic Acid Pinacol Ester CAS RN: 660867-80-1	<b>M2994</b> 1g  3-Methoxypyridine-5-boronic Acid Pinacol Ester CAS RN: 445264-60-8	<b>M3020</b> 1g  6-Methyl-3-pyridylboronic Acid Pinacol Ester CAS RN: 610768-32-6	<b>M3057</b> 1g 5g  4-(Methoxycarbonyl)phenylboronic Acid Pinacol Ester CAS RN: 171364-80-0
<b>M3116</b> 200mg 1g  6-(4-Methylpiperazin-1-yl)pyridine-3-boronic Acid Pinacol Ester CAS RN: 918524-63-7	<b>M3124</b> 1g 5g  3-Methoxyphenylboronic Acid Pinacol Ester CAS RN: 325142-84-5	<b>M3231</b> 1g 5g  4-Methyl-3-pyridylboronic Acid Pinacol Ester CAS RN: 1171891-31-8	<b>M3232</b> 200mg 1g  1-(2-Methoxyethyl)-1H-pyrazole-4-boronic Acid Pinacol Ester CAS RN: 847818-71-7	<b>M3233</b> 1g 5g  2-(Methoxycarbonyl)phenylboronic Acid Pinacol Ester CAS RN: 653589-95-8
<b>M3236</b> 1g 5g  4-(Methoxycarbonylmethyl)phenylboronic Acid Pinacol Ester CAS RN: 454185-98-9	<b>P2562</b> 200mg 1g  (9,9'-Spiro[fluorene]-3-yl)boronic Acid Pinacol Ester CAS RN: 1346007-05-3	<b>P2602</b> 1g 5g  2,4,4,5,5-Pentamethyl-1,3,2-dioxaborolane CAS RN: 94242-85-0	<b>T2521</b> 1g 5g  5-Pyrimidylboronic Acid Pinacol Ester CAS RN: 321724-19-0	<b>T3150</b> 1g 5g  2-Pyreneboronic Acid Pinacol Ester CAS RN: 853377-11-4
<b>T3393</b> 1g 5g  2-(Bromomethyl)phenylboronic Acid Pinacol Ester CAS RN: 377780-72-8	<b>T3399</b> 200mg 1g  3-(4-Pyridyl)phenylboronic Acid Pinacol Ester CAS RN: 1009033-83-3	<b>T3400</b> 200mg 1g  4-(4-Pyridyl)phenylboronic Acid Pinacol Ester CAS RN: 1009033-87-7	<b>T3441</b> 1g 5g  (9H-Carbazol-2-yl)boronic Acid Pinacol Ester CAS RN: 1242412-60-7	<b>T3468</b> 1g 5g  4-[(Tetrahydro-2H-pyran-2-yl)oxy]phenylboronic Acid Pinacol Ester CAS RN: 889865-38-7
<b>T3469</b> 1g 5g  (2-Methyl-1-propenyl)boronic Acid Pinacol Ester CAS RN: 126689-00-7	<b>T3477</b> 1g 5g  4-(Morpholinomethyl)phenylboronic Acid Pinacol Ester CAS RN: 364794-79-6	<b>T3485</b> 1g 5g  5-Formyl-2-thiopheneboronic Acid Pinacol Ester CAS RN: 1040281-83-1	<b>T3496</b> 1g 5g  4-(Hydroxymethyl)phenylboronic Acid Pinacol Ester CAS RN: 302348-51-2	<b>T3507</b> 1g  Quinoline-6-boronic Acid Pinacol Ester CAS RN: 406463-06-7
<b>T3514</b> 200mg 1g  3-Cyanopyridine-5-boronic Acid Pinacol Ester CAS RN: 402718-29-0	<b>T3515</b> 1g 5g  1,3,5-Phenyltriboronic Acid Tris(pinacol) Ester CAS RN: 365564-05-2	<b>T3543</b> 1g 5g  2-Aminophenylboronic Acid Pinacol Ester CAS RN: 191171-55-8	<b>T3557</b> 1g 5g  4-(Methanesulfonylamino)phenylboronic Acid Pinacol Ester CAS RN: 616880-14-9	<b>T3566</b> 250mg 1g  1,4-Dioxaspiro[4,5]dec-7-en-8-boronic Acid Pinacol Ester CAS RN: 680596-79-6
<b>T3626</b> 1g  (Naphthalen-1-ylmethyl)boronic Acid Pinacol Ester CAS RN: 475250-57-8	<b>T3665</b> 1g 5g  10-Phenylanthracene-9-boronic Acid Pinacol Ester CAS RN: 460347-59-5	<b>T3705</b> 1g 5g  4-Morpholinophenylboronic Acid Pinacol Ester CAS RN: 568577-88-8	<b>T3707</b> 5g 25g  3-(Trifluoromethyl)phenylboronic Acid Pinacol Ester CAS RN: 325142-82-3	<b>T3708</b> 5g 25g  2-Methoxyphenylboronic Acid Pinacol Ester CAS RN: 190788-60-4

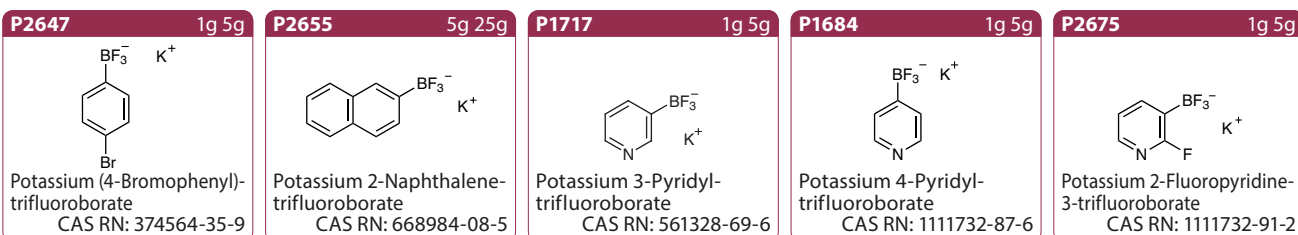
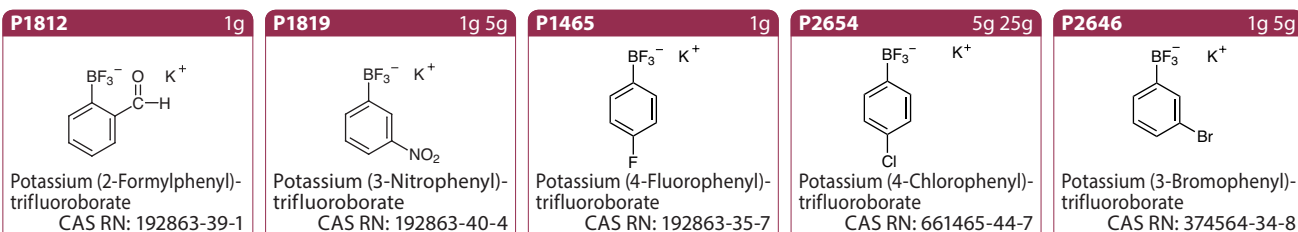
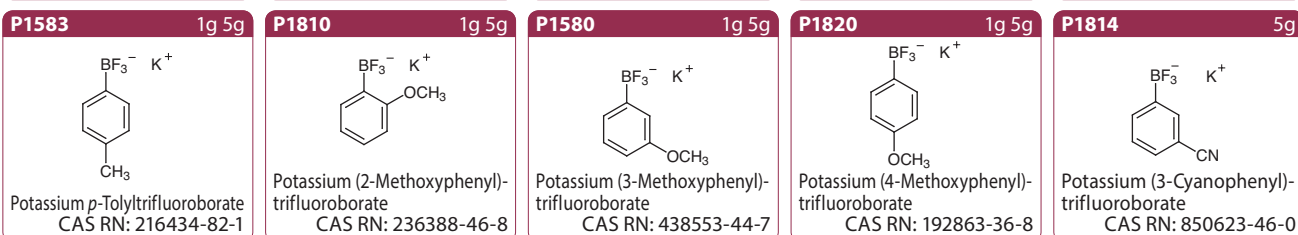
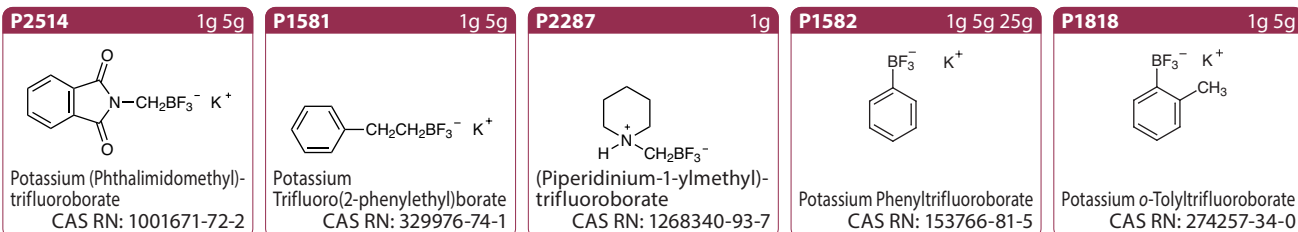
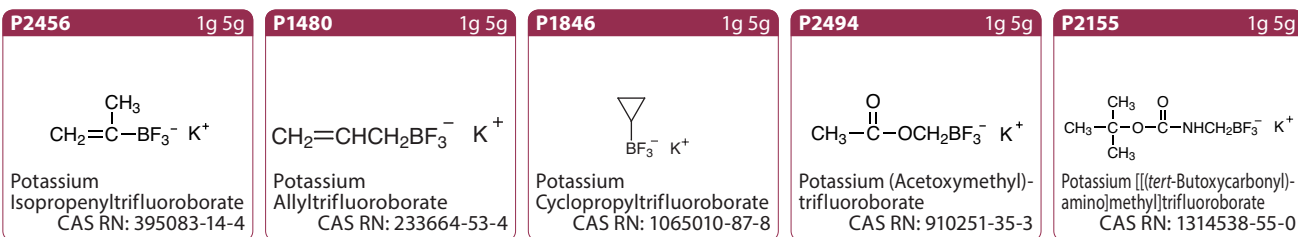
<p><b>T3709</b> 5g 25g</p>  <p>3-Formylphenylboronic Acid Pinacol Ester CAS RN: 380151-86-0</p>	<p><b>T3747</b> 1g</p>  <p>(9H-Carbazol-4-yl)boronic Acid Pinacol Ester CAS RN: 1255309-13-7</p>	<p><b>T3754</b> 200mg 1g</p>  <p>4-(Carboxymethyl)phenylboronic Acid Pinacol Ester CAS RN: 797755-07-8</p>	<p><b>T3826</b> 1g 5g</p>  <p>3-Acrylamidophenylboronic Acid Pinacol Ester CAS RN: 874363-18-5</p>	<p><b>T3828</b> 250mg 1g</p>  <p>(1,1':3,1''-Terphenyl)-3-ylboronic Acid Pinacol Ester CAS RN: 1115023-84-1</p>
<p><b>T3829</b> 1g 5g</p>  <p>1H-Pyrazole-3-boronic Acid Pinacol Ester CAS RN: 844501-71-9</p>	<p><b>T3830</b> 1g 5g</p>  <p>3-(Hydroxymethyl)phenylboronic Acid Pinacol Ester CAS RN: 443776-76-9</p>	<p><b>T3831</b> 1g 5g</p>  <p>Phenoxyphenyl-4-boronic Acid Pinacol Ester CAS RN: 269410-26-6</p>	<p><b>T3873</b> 200mg 1g</p>  <p>(1,1':3,1''-Terphenyl)-4-ylboronic Acid Pinacol Ester CAS RN: 1385826-84-5</p>	<p><b>T3874</b> 1g 5g</p>  <p>(1,1':4,1''-Terphenyl)-3-ylboronic Acid Pinacol Ester CAS RN: 1401577-23-8</p>
<p><b>T3875</b> 1g</p>  <p>(1,1':4,1''-Terphenyl)-4-ylboronic Acid Pinacol Ester CAS RN: 1080632-76-3</p>	<p><b>D5534</b> 1g 5g</p>  <p>Triphenylamine-4-boronic Acid Pinacol Ester CAS RN: 267221-88-5</p>	<p><b>E1346</b> 1g 5g</p>  <p>4-Ethoxycarbonylphenylboronic Acid Pinacol Ester CAS RN: 195062-62-5</p>	<p><b>F1201</b> 5g 25g</p>  <p>4-Fluorophenylboronic Acid Pinacol Ester CAS RN: 214360-58-4</p>	<p><b>M3245</b> 1g 5g</p>  <p>3-(4-Methyl-1-piperazinylmethyl)benzeneboronic Acid Pinacol Ester CAS RN: 883738-27-0</p>
<p><b>T3710</b> 1g 5g</p>  <p>4-Nitrophenylboronic Acid Pinacol Ester CAS RN: 171364-83-3</p>				

## 保護ボロン酸

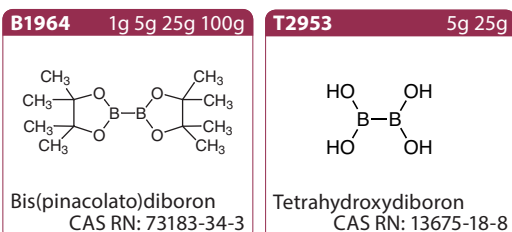
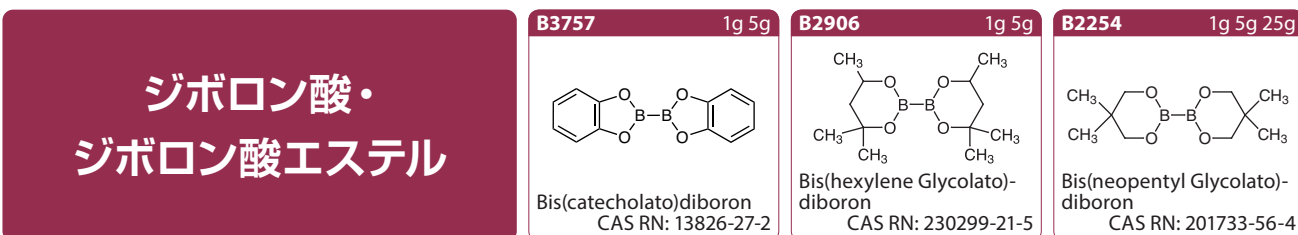
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<p><b>B3868</b> 1g 5g</p>  <p>2-(5-Bromo-2-thienyl)-2,3-dihydro-1H-naphtho[1,8-de][1,3,2]-diazaborine CAS RN: 927384-46-1</p>	<p><b>B4523</b> 200mg 1g</p>  <p>Bis(3-bromophenylboronic Acid) <i>scyllo</i>-Inositol Complex Dipotassium Pentahydrate CAS RN: 1537876-31-5</p>	<p><b>B4524</b> 200mg 1g</p>  <p>Bis(4-bromophenylboronic Acid) <i>scyllo</i>-Inositol Complex Dipotassium Tetrahydrate CAS RN: 1537876-29-1</p>

## トリフルオロボレート塩

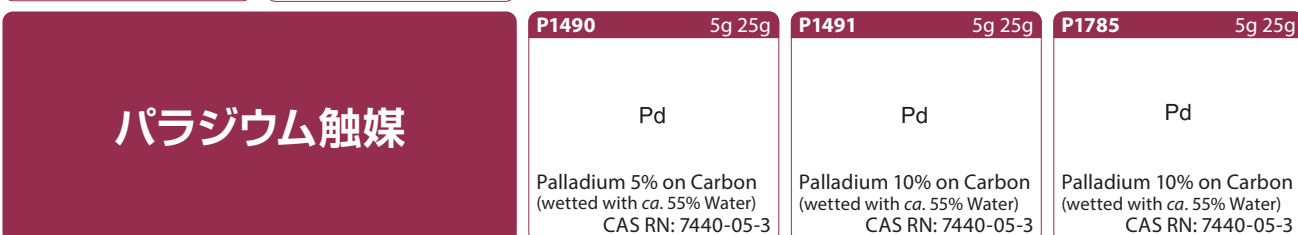
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<p><b>P2628</b> 1g 5g</p> <p><math>\text{CH}_3\text{CH}_2\text{BF}_3^- \text{K}^+</math></p> <p>Potassium Ethyltrifluoroborate CAS RN: 882871-21-8</p>	<p><b>P2626</b> 1g 5g</p> <p><math>\text{CH}_3\text{CH}_2\text{CH}_2\text{BF}_3^- \text{K}^+</math></p> <p>Potassium Butyltrifluoroborate CAS RN: 444343-55-9</p>	

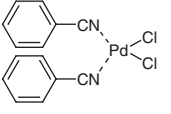
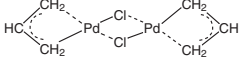
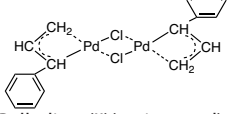
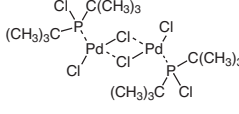
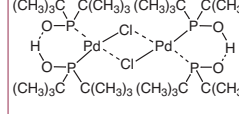
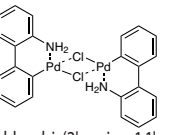
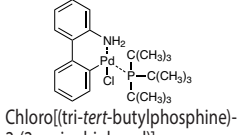
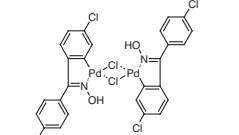
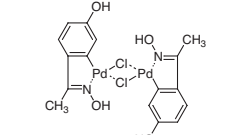
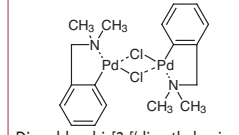
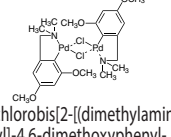
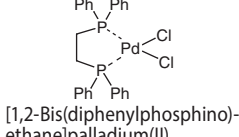
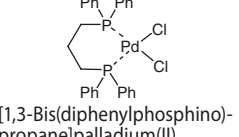
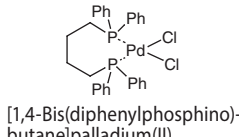
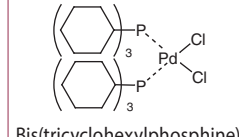
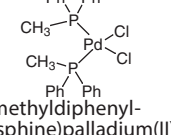
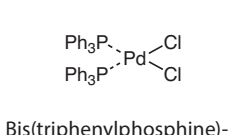
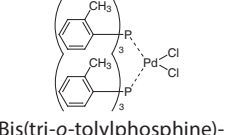
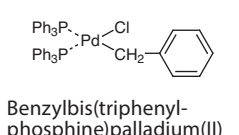
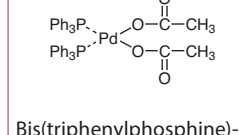
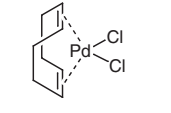
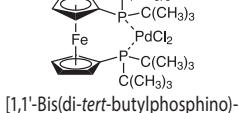

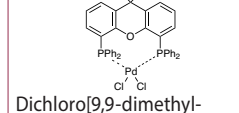
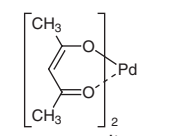
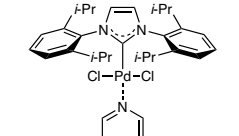
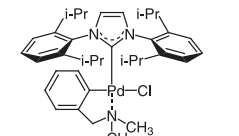
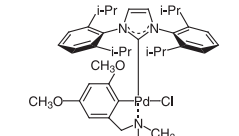
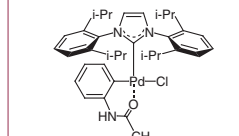


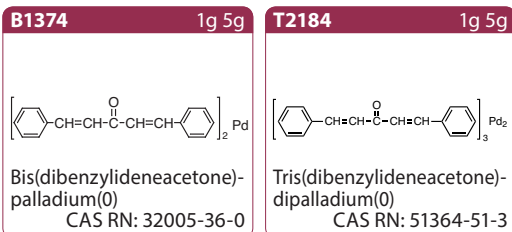
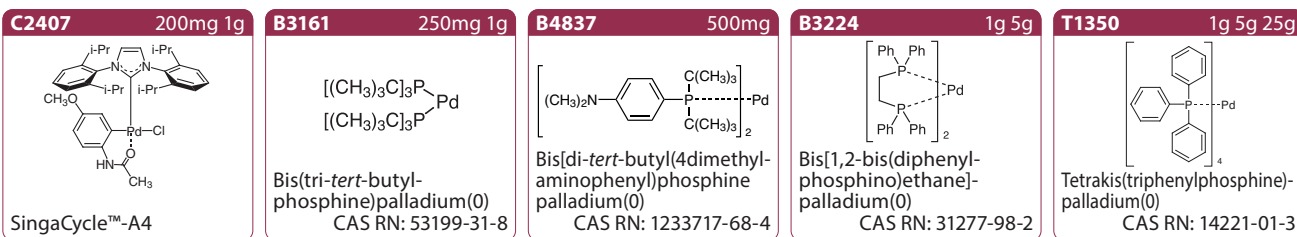
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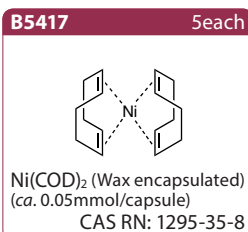
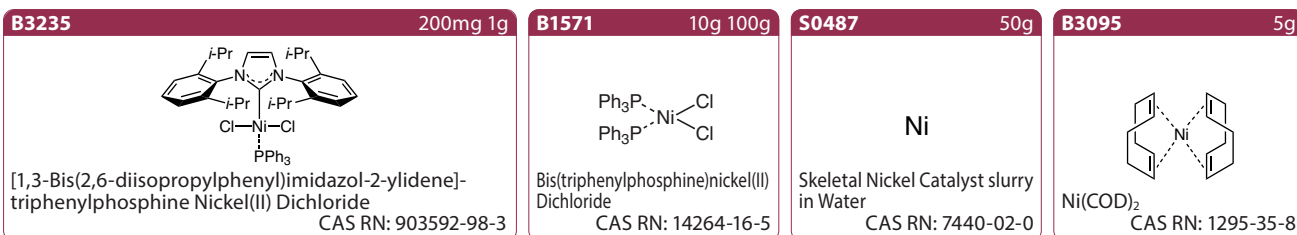
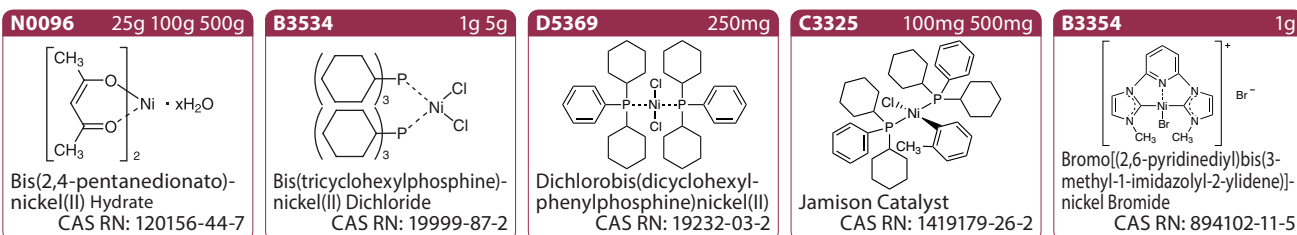
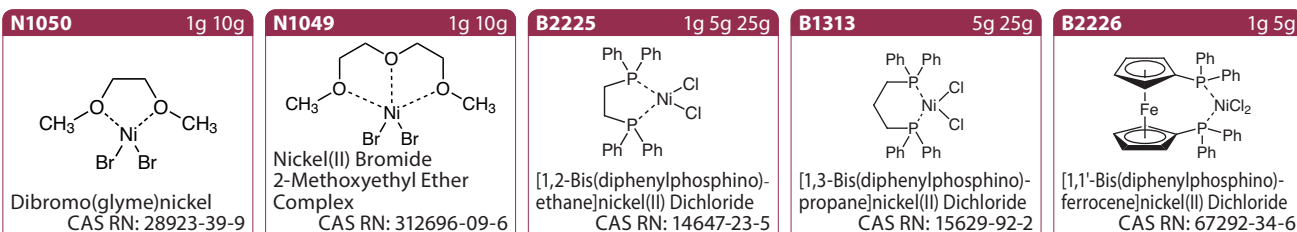
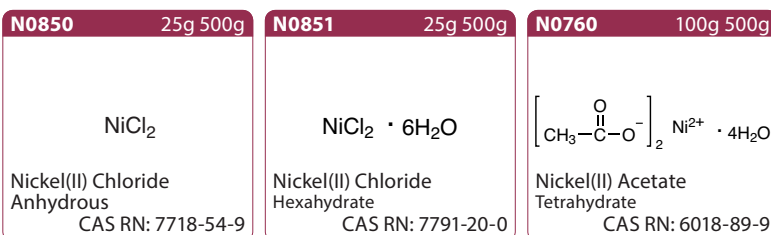
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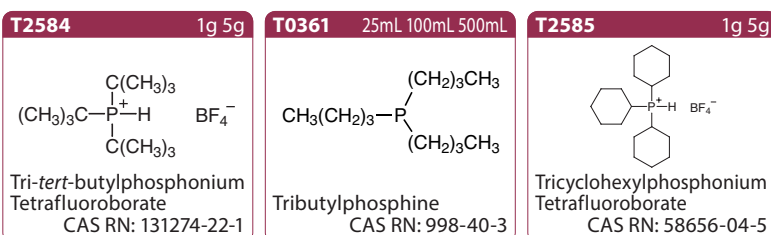
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<p><b>P1870</b> 1g 5g</p> <p>Pd(CF<sub>3</sub>COO)<sub>2</sub></p> <p>Palladium(II) Trifluoroacetate CAS RN: 42196-31-6</p>	<p><b>P1489</b> 1g 5g</p> <p>PdCl<sub>2</sub></p> <p>Palladium(II) Chloride CAS RN: 7647-10-1</p>	<p><b>S0540</b> 1g</p> <p>Na<sub>2</sub>PdCl<sub>4</sub></p> <p>Sodium Tetrachloro- palladate(II) CAS RN: 13820-53-6</p>	<p><b>B1676</b> 1g 5g</p> <p>(CH<sub>3</sub>CN)<sub>2</sub>PdCl<sub>2</sub></p> <p>Bis(acetonitrile)palladium(II) Dichloride CAS RN: 14592-56-4</p>	<p><b>T3023</b> 1g</p> <p>Pd(CH<sub>3</sub>CN)<sub>4</sub>(CF<sub>3</sub>SO<sub>3</sub>)<sub>2</sub></p> <p>Tetrakis(acetonitrile)- palladium(II) Ditriflate CAS RN: 68569-14-2</p>
<p><b>B1668</b> 1g 5g</p>  <p>Bis(benzonitrile)palladium(II) Dichloride CAS RN: 14220-64-5</p>	<p><b>A1479</b> 500mg 1g</p>  <p>Allylpalladium(II) Chloride Dimer CAS RN: 12012-95-2</p>	<p><b>P2017</b> 200mg</p>  <p>Palladium(II)(<math>\pi</math>-cinnamyl) Chloride Dimer CAS RN: 12131-44-1</p>	<p><b>D3704</b> 100mg</p>  <p>[Di-<i>tert</i>-butyl(chloro)phosphine]- palladium(II) Dichloride Dimer CAS RN: 386706-33-8</p>	<p><b>D3706</b> 100mg</p>  <p>Dihydrogen Di-<math>\mu</math>-chlorotetrakis(di-<i>tert</i>-butylphosphinito)dipalladate CAS RN: 386706-31-6</p>
<p><b>D4191</b> 1g</p>  <p>Di-<math>\mu</math>-chlorobis(2'-amino-1,1'- biphenyl-2-yl-C,M)dipalladium(II) CAS RN: 847616-85-7</p>	<p><b>C2734</b> 1g</p>  <p>Chloro((tri-<i>tert</i>-butylphosphine)- 2-(2-aminobiphenyl)) palladium(III) CAS RN: 1375325-71-5</p>	<p><b>D3806</b> 250mg 1g</p>  <p>Najera Catalyst I CAS RN: 287410-78-0</p>	<p><b>D3807</b> 250mg 1g</p>  <p>Najera Catalyst II CAS RN: 419581-64-9</p>	<p><b>D3847</b> 1g</p>  <p>Di-<math>\mu</math>-chlorobis(2-[(dimethylamino)- methyl]phenyl-C,N)dipalladium(II) CAS RN: 18987-59-2</p>
<p><b>D4112</b> 1g</p>  <p>Di-<math>\mu</math>-chlorobis(2-[(dimethylamino)- methyl]-4,6-dimethoxyphenyl- C,N)dipalladium(II) CAS RN: 18987-71-8</p>	<p><b>B2016</b> 1g 5g</p>  <p>[1,2-Bis(diphenylphosphino)- ethane]palladium(II) Dichloride CAS RN: 19978-61-1</p>	<p><b>B2192</b> 1g 5g</p>  <p>[1,3-Bis(diphenylphosphino)- propane]palladium(II) Dichloride CAS RN: 59831-02-6</p>	<p><b>B2031</b> 1g 5g</p>  <p>[1,4-Bis(diphenylphosphino)- butane]palladium(II) Dichloride CAS RN: 29964-62-3</p>	<p><b>B2055</b> 1g 5g</p>  <p>Bis(tricyclohexylphosphine)- palladium(II) Dichloride CAS RN: 29934-17-6</p>
<p><b>B2161</b> 1g 5g</p>  <p>Bis(methylphenylphosphine)palladium(II) Dichloride CAS RN: 52611-08-2</p>	<p><b>B1667</b> 1g 5g 25g</p>  <p>Bis(triphenylphosphine)- palladium(II) Dichloride CAS RN: 13965-03-2</p>	<p><b>B2026</b> 1g 5g</p>  <p>Bis(tri-<i>o</i>-tolylphosphine)- palladium(II) Dichloride CAS RN: 40691-33-6</p>	<p><b>B2029</b> 100mg 1g</p>  <p>Benzylbis(triphenylphosphine)palladium(II) Chloride CAS RN: 22784-59-4</p>	<p><b>B2042</b> 1g 5g</p>  <p>Bis(triphenylphosphine)- palladium(II) Diacetate CAS RN: 14588-08-0</p>
<p><b>D2604</b> 1g 5g</p>  <p>Dichloro(1,5-cycloocta- diene)palladium(II) CAS RN: 12107-56-1</p>	<p><b>B3160</b> 1g 5g</p>  <p>[1,1'-Bis(di-<i>tert</i>-butylphosphino)- ferrocene]palladium(II) Dichloride CAS RN: 95408-45-0</p>	<p><b>B2064</b> 1g 5g 25g</p>  <p>[1,1'-Bis(diphenylphosphino)ferrocene]palladium(II) Dichloride Dichloromethane Adduct CAS RN: 95464-05-4</p>	<p><b>D4333</b> 200mg 1g</p>  <p>Dichloro[9,9-dimethyl- 4,5-bis(diphenylphosphino)- xanthen]palladium(II) CAS RN: 205319-10-4</p>	
<p><b>B2018</b> 1g 5g</p>  <p>Bis(2,4-pentanedionato)- palladium(II) CAS RN: 14024-61-4</p>	<p><b>B6199</b> 1g 5g 25g</p>  <p>Organ's Catalyst CAS RN: 905459-27-0</p>	<p><b>C2372</b> 200mg 1g</p>  <p>SingaCycle™-A1 CAS RN: 930796-10-4</p>	<p><b>C2406</b> 200mg 1g</p>  <p>SingaCycle™-A2 CAS RN: 1093348-08-3</p>	<p><b>C2387</b> 200mg 1g</p>  <p>SingaCycle™-A3 CAS RN: 1228009-69-5</p>



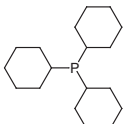
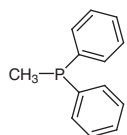
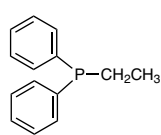
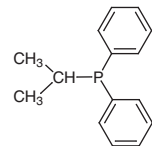
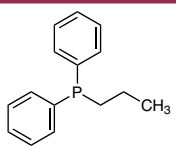
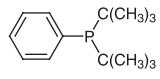
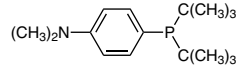
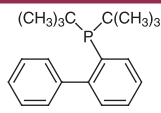
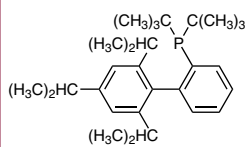
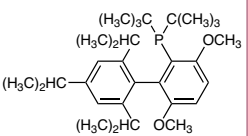
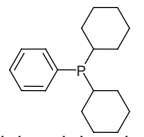
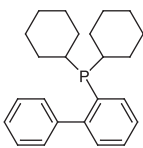
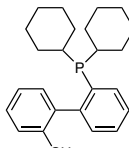
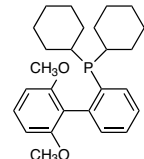
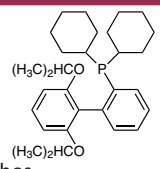
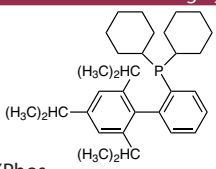
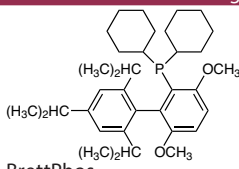
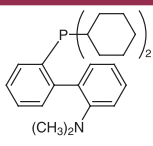
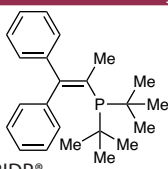
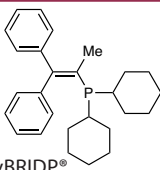
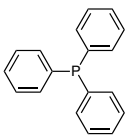
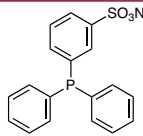
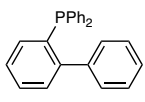
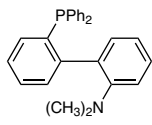
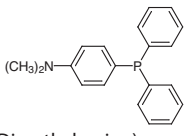
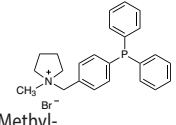
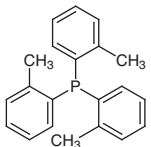
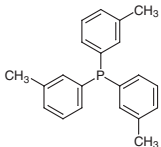
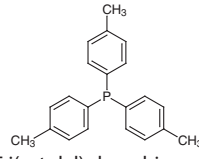
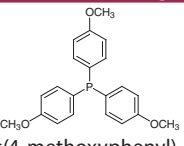
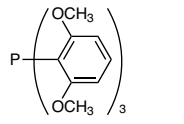
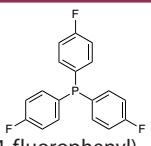
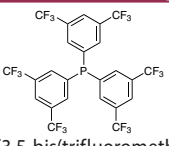
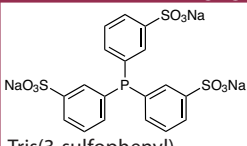
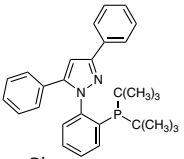
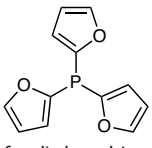
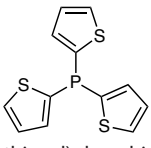
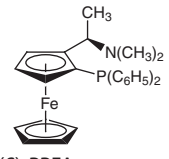
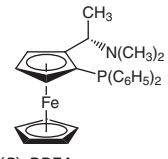
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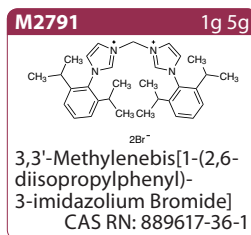
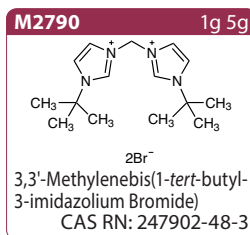
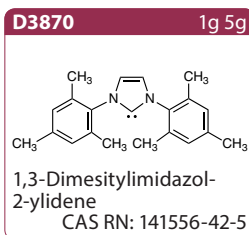
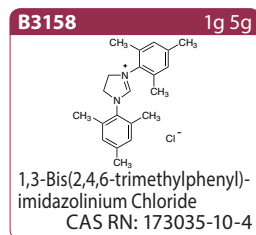


鈴木-宮浦クロスカップリング反応

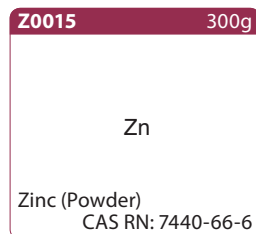
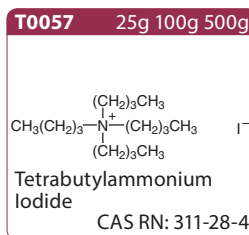
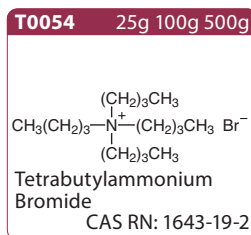
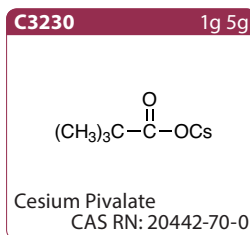
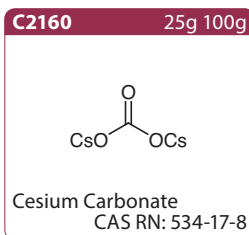
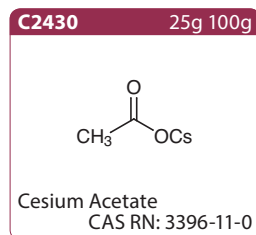
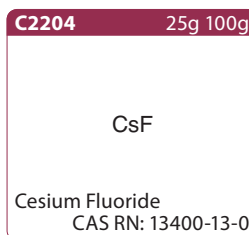
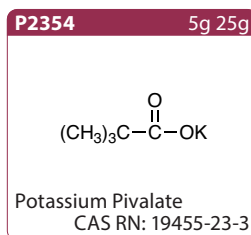
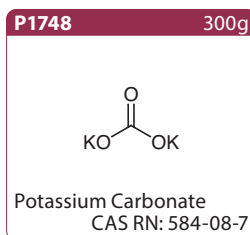
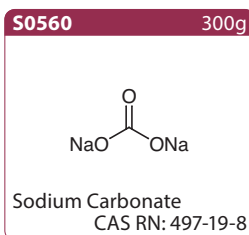
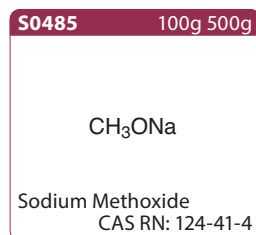
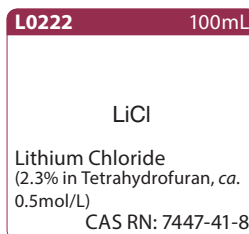
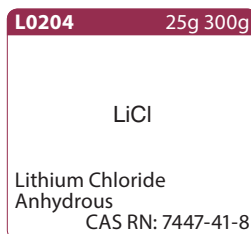
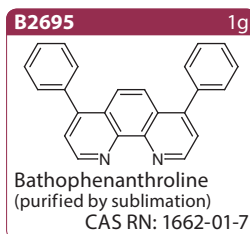
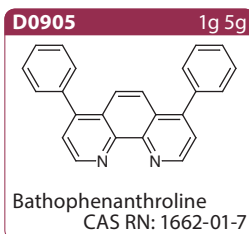
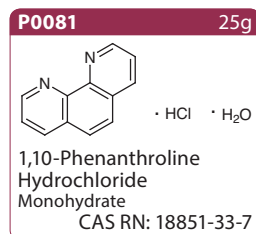
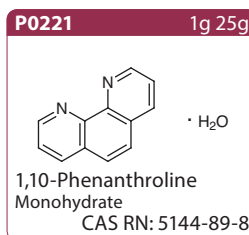
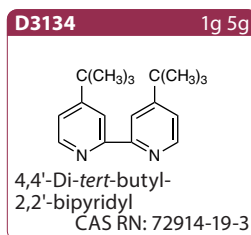
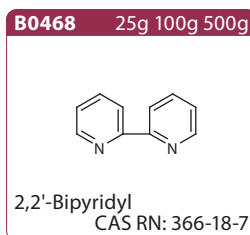
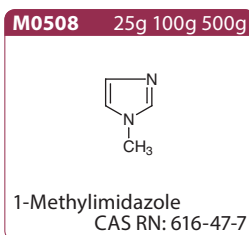
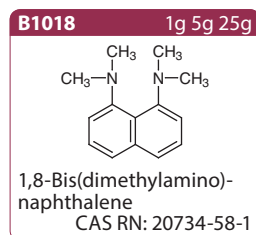
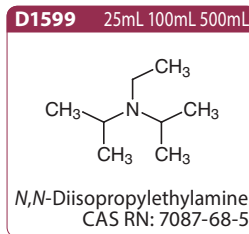
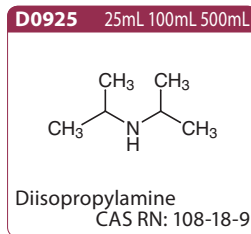
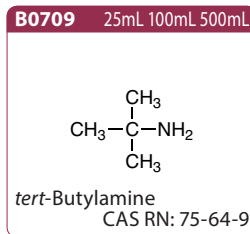
<p><b>T1165</b> 25mL</p>  <p>Tricyclohexylphosphine (contains Tricyclohexylphosphine Oxide) (ca. 18% in Toluene, ca. 0.60mol/L) CAS RN: 2622-14-2</p>	<p><b>M1318</b> 1g 5g</p>  <p>Methyl-diphenylphosphine CAS RN: 1486-28-8</p>	<p><b>E0519</b> 5g</p>  <p>Ethyl-diphenylphosphine CAS RN: 607-01-2</p>	<p><b>I0583</b> 1g 5g</p>  <p>Isopropyl-diphenylphosphine CAS RN: 6372-40-3</p>	
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<p><b>D5663</b> 250mg</p>  <p>tert-ButylBrettPhos CAS RN: 1160861-53-9</p>	<p><b>D2411</b> 1g 5g</p>  <p>Dicyclohexylphenylphosphine CAS RN: 6476-37-5</p>	<p><b>D3388</b> 1g 5g</p>  <p>CyJohnPhos CAS RN: 247940-06-3</p>	<p><b>D5035</b> 1g 5g</p>  <p>MePhos CAS RN: 251320-86-2</p>	<p><b>D5036</b> 1g 5g</p>  <p>SPhos CAS RN: 657408-07-6</p>
<p><b>D5037</b> 1g 5g</p>  <p>RuPhos CAS RN: 787618-22-8</p>	<p><b>D5038</b> 1g 5g</p>  <p>XPhos CAS RN: 564483-18-7</p>	<p><b>D5664</b> 250mg</p>  <p>BrettPhos CAS RN: 1070663-78-3</p>	<p><b>D3389</b> 1g 5g</p>  <p>DavePhos CAS RN: 213697-53-1</p>	<p><b>V0132</b> 200mg 1g</p>  <p>vBRIDP® CAS RN: 384842-25-5</p>
<p><b>C2981</b> 200mg 1g</p>  <p>Cy-vBRIDP® CAS RN: 384842-24-4</p>	<p><b>T0519</b> 25g 100g 500g</p>  <p>Triphenylphosphine CAS RN: 603-35-0</p>	<p><b>D2043</b> 1g 5g</p>  <p>Sodium Diphenylphosphinobenzene-3-sulfonate CAS RN: 63995-75-5</p>	<p><b>D4688</b> 1g</p>  <p>2-(Diphenylphosphino)biphenyl CAS RN: 13885-09-1</p>	<p><b>D4402</b> 1g</p>  <p>PhDave-Phos CAS RN: 240417-00-9</p>
<p><b>D2478</b> 1g 5g</p>  <p>4-(Dimethylamino)phenyldiphenylphosphine CAS RN: 739-58-2</p>	<p><b>M2103</b> 1g</p>  <p>1-Methyl-1-[4-(diphenylphosphino)benzyl]pyrrolidinium Bromide CAS RN: 1229444-44-3</p>	<p><b>T1024</b> 5g 25g</p>  <p>Tri(o-tolyl)phosphine CAS RN: 6163-58-2</p>	<p><b>T1025</b> 5g 25g</p>  <p>Tri(m-tolyl)phosphine CAS RN: 6224-63-1</p>	<p><b>T0862</b> 5g 25g</p>  <p>Tri(p-tolyl)phosphine CAS RN: 1038-95-5</p>
<p><b>T0861</b> 5g 25g</p>  <p>Tris(4-methoxyphenyl)phosphine CAS RN: 855-38-9</p>	<p><b>T1614</b> 5g 25g</p>  <p>Tris(2,6-dimethoxyphenyl)phosphine CAS RN: 85417-41-0</p>	<p><b>T2900</b> 5g</p>  <p>Tris(4-fluorophenyl)phosphine CAS RN: 18437-78-0</p>	<p><b>T2526</b> 1g 5g</p>  <p>Tris(3,5-bis(trifluoromethyl)phenyl)phosphine CAS RN: 175136-62-6</p>	<p><b>T2187</b> 1g 5g</p>  <p>Tris(3-sulfophenyl)phosphine Trisodium Salt CAS RN: 63995-70-0</p>
<p><b>D3834</b> 1g 5g</p>  <p>TrippyPhos CAS RN: 628333-86-8</p>	<p><b>T1643</b> 1g 5g</p>  <p>Tri(2-furyl)phosphine CAS RN: 5518-52-5</p>	<p><b>T1666</b> 1g 5g</p>  <p>Tri(2-thienyl)phosphine CAS RN: 24171-89-9</p>	<p><b>D2535</b> 100mg</p>  <p>(R)-(S)-PPFA CAS RN: 55700-44-2</p>	<p><b>D2536</b> 100mg</p>  <p>(S)-(R)-PPFA CAS RN: 55650-58-3</p>



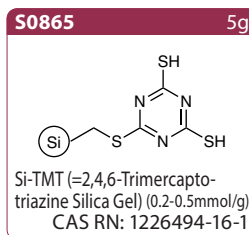
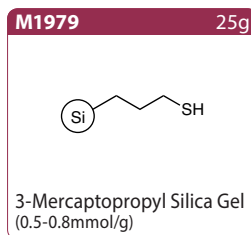
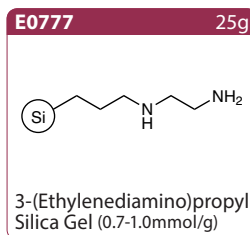
<p><b>D2774</b> 100mg 1g</p> <p>(R)-(+)-MOP CAS RN: 145964-33-6</p>	<p><b>B1982</b> 5g 25g</p> <p>Bis(diphenylphosphino)methane CAS RN: 2071-20-7</p>	<p><b>B1137</b> 10g 25g</p> <p>1,2-Bis(diphenylphosphino)ethane CAS RN: 1663-45-2</p>	<p><b>B1138</b> 5g 25g</p> <p>1,3-Bis(diphenylphosphino)propane CAS RN: 6737-42-4</p>	<p><b>B1246</b> 5g 25g</p> <p>1,4-Bis(diphenylphosphino)butane CAS RN: 7688-25-7</p>
<p><b>B1960</b> 1g</p> <p>1,5-Bis(diphenylphosphino)pentane CAS RN: 27721-02-4</p>	<p><b>B1959</b> 1g 5g</p> <p>1,6-Bis(diphenylphosphino)hexane CAS RN: 19845-69-3</p>	<p><b>B2867</b> 5g 25g</p> <p>Bis[2-(diphenylphosphino)phenyl] Ether CAS RN: 166330-10-5</p>	<p><b>B2709</b> 1g 5g 25g</p> <p>Xantphos CAS RN: 161265-03-8</p>	<p><b>B5239</b> 200mg 1g</p> <p>4,5-Bis(dicyclohexylphosphino)-9,9-dimethylxanthene CAS RN: 940934-47-4</p>
<p><b>B5957</b> 100mg 500mg</p> <p>2,2'-Biphenyldiylbis[bis(3,5-dimethylphenyl)phosphine] CAS RN: 325773-62-4</p>	<p><b>B2711</b> 100mg 1g</p> <p>1,1'-Bis(di-tert-butylphosphino)ferrocene CAS RN: 84680-95-5</p>	<p><b>B2710</b> 100mg 1g</p> <p>1,1'-Bis(diisopropylphosphino)ferrocene CAS RN: 97239-80-0</p>	<p><b>B2027</b> 1g 5g 25g</p> <p>1,1'-Bis(diphenylphosphino)ferrocene CAS RN: 12150-46-8</p>	<p><b>B2383</b> 5g 25g</p> <p>(±)-BINAP CAS RN: 98327-87-8</p>
<p><b>B1406</b> 1g 5g 25g</p> <p>(R)-(+)-BINAP CAS RN: 76189-55-4</p>	<p><b>B1405</b> 1g 5g</p> <p>(S)-(-)-BINAP CAS RN: 76189-56-5</p>	<p><b>N-ヘテロ環状カルベン配位子</b></p>		
<p><b>D3622</b> 1g 5g</p> <p>1,3-Di-tert-butylimidazol-2-ylidene CAS RN: 137581-18-1</p>	<p><b>D3623</b> 1g</p> <p>1-Methyl-3-propylimidazolium Tetrafluoroborate CAS RN: 286014-34-4</p>			
<p><b>D5498</b> 1g</p> <p>[iPr(H)][HCO<sub>3</sub>] CAS RN: 1372124-90-7</p>	<p><b>D5513</b> 1g</p> <p>[tBu(H)][HCO<sub>3</sub>]</p>	<p><b>D3472</b> 1g 5g</p> <p>1,3-Di-tert-butylimidazol-2-ylidene CAS RN: 157197-53-0</p>	<p><b>M3036</b> 5g 25g</p> <p>1-Methyl-3-propylimidazolium Tetrafluoroborate CAS RN: 244193-48-4</p>	<p><b>D3882</b> 1g 5g</p> <p>1,3-Dicyclohexylimidazolium Chloride CAS RN: 181422-72-0</p>
<p><b>D3850</b> 1g 5g 25g</p> <p>1,3-Dicyclohexylimidazolium Tetrafluoroborate CAS RN: 286014-38-8</p>	<p><b>D3620</b> 500mg</p> <p>1,3-Di(1-adamantyl)imidazolium Tetrafluoroborate CAS RN: 1176202-63-3</p>	<p><b>D3621</b> 1g</p> <p>IAd-HBF<sub>4</sub> CAS RN: 286014-42-4</p>	<p><b>B5603</b> 1g</p> <p>IPr-CO<sub>2</sub> CAS RN: 917604-39-8</p>	<p><b>D3611</b> 500mg 5g 25g</p> <p>1,3-Bis(2,6-diisopropylphenyl)imidazolium Chloride CAS RN: 250285-32-6</p>
<p><b>B3157</b> 500mg 1g 5g</p> <p>1,3-Bis(2,6-diisopropylphenyl)imidazolium Chloride CAS RN: 258278-25-0</p>	<p><b>B3465</b> 1g 5g</p> <p>1,3-Bis(2,6-diisopropylphenyl)imidazol-2-ylidene CAS RN: 244187-81-3</p>	<p><b>B3506</b> 1g</p> <p>1,3-Bis(2,6-diisopropylphenyl)imidazolidin-2-ylidene CAS RN: 258278-28-3</p>	<p><b>D5401</b> 1g</p> <p>IMes-CO<sub>2</sub> CAS RN: 675877-56-2</p>	<p><b>D3446</b> 1g 5g</p> <p>1,3-Dimesitylimidazolium Chloride CAS RN: 141556-45-8</p>



## 塩基・添加剤



## 金属スカベンジャー



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