Amino Acids and Peptide Synthesis Reagents

Ala  Glu  Ser  Met  Leu  Ile
Gln  Thr  Gly  Phe  Lys  Trp
Arg  Cys  Asn  Pro  Val  Tyr
Asp  His
# 产品列表

我们根据产品的结构来分别介绍。

## 氨基酸

<table>
<thead>
<tr>
<th>表格名称</th>
<th>页码</th>
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<tbody>
<tr>
<td>蛋白氨基酸</td>
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<tr>
<td>生物修饰氨基酸</td>
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<tr>
<td>非蛋白氨基酸</td>
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<tr>
<td>氨基酸（N-保护）</td>
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<tr>
<td>Ac-氨基酸</td>
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<tr>
<td>Boc-氨基酸</td>
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<td>Dbs-氨基酸</td>
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<td>Dns-氨基酸</td>
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<td>Fmoc-氨基酸</td>
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<td>Nps-氨基酸</td>
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<td>Cbz-氨基酸</td>
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<td>其他</td>
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<tr>
<td>氨基酸（C-保护）</td>
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<tr>
<td>氨基酸甲酯</td>
<td>22</td>
</tr>
<tr>
<td>氨基酸乙酯</td>
<td>24</td>
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<tr>
<td>氨基酸叔丁酯</td>
<td>25</td>
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<tr>
<td>氨基酸苯酯</td>
<td>26</td>
</tr>
<tr>
<td>氨基酸琥珀酰亚胺酯</td>
<td>26</td>
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<td>其他</td>
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## 侧链保护的氨基酸（N,C-无保护）

<table>
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<td>蛋氨酸乙酯</td>
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<td>蛋氨酸苯酯</td>
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<tr>
<td>蛋氨酸琥珀酰亚胺酯</td>
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<td>其他</td>
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## 肽合成试剂

<table>
<thead>
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<tbody>
<tr>
<td>寡肽</td>
<td>30</td>
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<tr>
<td>固相肽合成</td>
<td>32</td>
</tr>
<tr>
<td>Fmoc-氨基酸（侧链保护型）</td>
<td>33</td>
</tr>
<tr>
<td>缩合剂，活化剂和Fmoc-脱保护剂</td>
<td>35</td>
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<tr>
<td>解理和固化剂</td>
<td>35</td>
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<tr>
<td>液相肽合成</td>
<td>36</td>
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<tr>
<td>缩合剂</td>
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<td>保护剂</td>
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氨基酸

氨基酸分子中同时含有氨基和羧基。广泛意义上的氨基酸是指组成蛋白质的 α-氨基酸，氨基酸的立体化学被定义为 D型和 L型对映异构体。20种标准氨基酸对应 L型异构体，其对映体 D型异构体在自然界中很少。氨基酸残基的羧基和氨基形成肽键，生命体中大约有 100,000 或更多种不同蛋白质由这20种 L型 α-氨基酸通过肽键结合而成。尽管所有生命形式中都能找到这 20种必需氨基酸，D 型氨基酸和肽在生化体系中也发挥着重要作用。氨基酸和它们的 N-保护衍生物，如 Boc 和 Fmoc 氨基酸，在从其它分子（如肽键甜味剂、营养增补剂、化妆品原料、表面活性剂以及类胰岛素药物合成前体）合成各种生物活性物质的工艺中起到重要作用。

典型氨基酸，其被保护和生物修饰试剂、非蛋白氨基酸、寡肽和酶的产品如下。
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<td>1g 10g</td>
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<td>G0063</td>
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<td>H-Gly-OH</td>
<td>25g 500g</td>
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<td>G0103</td>
<td>H-Gly-OH·HCl</td>
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<td>G0188</td>
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<td>G0278</td>
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<td>L0027</td>
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<td>L0028</td>
<td>H-DeLeu-OH·HCl</td>
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<td>L0029</td>
<td>H-Leu-OH</td>
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<tr>
<td>L0070</td>
<td>H-Lys-OH·HCl</td>
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<td>L0071</td>
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<td>P0480</td>
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<td>P0994</td>
<td>H-D-Pro-OH</td>
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<td>S0034</td>
<td>H-Dl-Ser-OH</td>
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<tr>
<td>S0900</td>
<td>L-Selenocystine Monohydrate</td>
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<td>T0228</td>
<td>H-D-Thr-OH</td>
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<td>T0539</td>
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<td>H_{2}NCH_{2}COOH·HCl</td>
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</table>
Amino Acids

**Biologically-modified Amino Acids**

- **T0540**
  - 25g
  - H-DL-Trp-OH
  - [54-12-6]

- **T0541**
  - 25g 100g
  - H-Trp-OH
  - [73-22-3]

- **T0549**
  - 5g 25g
  - H-DL-Tyr-OH
  - [556-03-6]

- **T0550**
  - 25g 100g 500g
  - H-D-Trp-OH
  - [556-02-5]

- **T1423**
  - 25g
  - H-Tyr-OH·2Na Hydrate
  - [556-03-6]

- **A1489**
  - 200mg 1g
  - L-Abrine
  - [526-31-8]

- **D0599**
  - 1g
  - DL-DOPA
  - [63-84-3]

- **D0600**
  - 5g 25g 100g
  - Levodopa
  - [59-92-7]

- **D0612**
  - 5g 25g
  - 3,5-Diiodo-L-tyrosine Dihydrate
  - [18835-59-1]

- **H0296**
  - 5g 25g 100g
  - H-Hyp-OH
  - [51-35-4]

- **H0531**
  - 1g 5g
  - H-5-OH-Trp-OH (contains DL-Allothreonine)
  - [80-68-2]

- **H0531**
  - 1g 5g
  - H-Trp(5-OH)-OH
  - [4350-09-8]

- **H1169**
  - 100mg 1g
  - H-DL-Trp(5-Me)-OH
  - [951-55-3]

- **H1358**
  - 1g 5g
  - H-DL-cis-Hyp-OH
  - [2584-71-6]

- **O0063**
  - 1g
  - H-Orn-OH·HCl
  - [1069-31-4]

- **O0064**
  - 25g 250g
  - H-Orn-OH·2HCl
  - [3493-14-7]

- **O0089**
  - 1g 5g
  - H-Orn-OH·2HCl
  - [6211-16-1]

- **P0255**
  - 1g
  - O-Phospho-DL-threonine
  - [27530-80-9]

- **P0573**
  - 25g 100g 500g
  - H-Pyr-OH
  - [98-79-3]

- **P0773**
  - 5g 25g
  - L-O-Phosphoserine
  - [407-41-0]
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<tr>
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<th>Mass</th>
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<td>S0442</td>
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<td>L-Selenomethionine</td>
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<td>S0462</td>
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<td>DL-Selenomethionine</td>
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<td>S0841</td>
<td>5g 25g</td>
<td>Me-Gly-OEt·HCl</td>
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<td>T0219</td>
<td>25g 500g</td>
<td>L-Thioproline</td>
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<td>T0241</td>
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<td>L-Thyroxine Sodium Salt</td>
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<td>T0245</td>
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<td>3,3',5-Triiodo-L-thyronine</td>
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<td>A0212</td>
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<td>A0280</td>
<td>25g</td>
<td>DL-2-Aminobutyric Acid</td>
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<td>25g 100g 500g</td>
<td>GABA</td>
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<td>A0319</td>
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<td>DL-Homoserine</td>
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<td>A0323</td>
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<td>2-Methylalanine</td>
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<td>A0382</td>
<td>5g 25g</td>
<td>DL-2-Amino-3-hexanoic Acid</td>
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<td>A1068</td>
<td>25g 100g</td>
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<td>A1279</td>
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<td>DL-2-Aminosuberic Acid</td>
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<td>A1367</td>
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<td>2-Amino-4,4,4-trifluorobutyric Acid Hydrochloride</td>
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<td>(S)-(−)-2-Amino-4-bromobutyric Acid Hydrobromide</td>
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<td>S-Ally-L-cysteine</td>
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<td>D-Allothreonine</td>
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<td>Azetidine-3-carboxylic Acid</td>
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<td>D-2-Allylglycine Hydrochloride</td>
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<td>A1648</td>
<td>200mg 1g 5g</td>
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<td>(1R,2S)-2-Aminocyclohexane-carboxylic Acid</td>
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<td>A1689</td>
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<td>(1S,2S)-2-Aminocyclohexane-carboxylic Acid</td>
<td>[24716-93-6]</td>
</tr>
</tbody>
</table>

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<table>
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800-988-0390 或者 021-67121386
邮件: Sales-CN@TCIchemicals.com

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氨基酸

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Dnp-Amino Acids

Fmoc-氨基酸
Fmoc-Amino Acids

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800-988-0390 或 021-67121386
邮件：Sales-CN@TCIchemicals.com

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氨基酸

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Z-Arg(Z)2-OH [14611-34-8]

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B2273 5g 25g
Bzl-Gly-OEt [6436-90-4]

B3075 5g 25g
N-Benzylglycine Hydrochloride [7689-50-1]

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氨基酸

Amino Acids

氨基酸甲酯
Amino Acid Methyl Esters

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<td>A0118</td>
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<td>A0118</td>
</tr>
<tr>
<td>P2273</td>
<td>5g-25g</td>
<td>H-D-Trp-OMe·HCl [14907-27-8]</td>
</tr>
<tr>
<td>P2273</td>
<td>5g-25g</td>
<td>H-D-Trp-OMe·HCl [14907-27-8]</td>
</tr>
<tr>
<td>P2351</td>
<td>1g</td>
<td>B0853</td>
</tr>
<tr>
<td>P2351</td>
<td>1g</td>
<td>B0853</td>
</tr>
<tr>
<td>P2351</td>
<td>1g</td>
<td>B0853</td>
</tr>
<tr>
<td>P2351</td>
<td>1g</td>
<td>B0853</td>
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</table>
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肽合成试剂

肽由氨基酸残基通过肽键连接而成。含有10个以下氨基酸残基的称为寡肽，而含有多达100个的则称为（多）肽。肽是形成蛋白质和阿斯巴甜（一种人造的非糖类甜味剂）的主要成分。肽在有机体中有多种功能，尤其是在信号传导中占有重要地位的肽激素。一些合成肽也可被用作生物学研究和医药用试剂。

因为自然界中存在的生物活性肽数量有限，而与肽对应的基因通常是未知的，所以肽的合成使得对肽的功能性分析的研究能够深入下去。迄今为止，含有几十个氨基酸残基的肽能通过固相合成得到，含有少量氨基酸残基的肽可由液相合成大规模制得。这部分将介绍肽合成用试剂。

<table>
<thead>
<tr>
<th>编号</th>
<th>试剂名</th>
<th>形态</th>
<th>规格</th>
<th>结构式</th>
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<tbody>
<tr>
<td>A0187</td>
<td>H-DL-Ala-DL-Met-OH</td>
<td>1g</td>
<td>100mg</td>
<td><img src="image" alt="H-DL-Ala-DL-Met-OH" /></td>
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<td>A0192</td>
<td>H-DL-Ala-DL-Val-OH</td>
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<td>100mg</td>
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<tr>
<td>A0222</td>
<td>β-Alanyl-L-histidine</td>
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<td>5g</td>
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<td>A0223</td>
<td>H-DL-Ala-DL-Phe-OH</td>
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<td>A1161</td>
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<td>A1261</td>
<td>H-Ala-Trp-OH</td>
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<td>A1476</td>
<td>N-Acetyl-S-(4-nitrophenyl)cysteinylglycine</td>
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<td>A1629</td>
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<td>D4229</td>
<td>Daptoycin</td>
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<tr>
<td>D4257</td>
<td>GSSG oxidized form</td>
<td>1g</td>
<td>10g</td>
<td><img src="image" alt="GSSG oxidized form" /></td>
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</table>

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■ 固相肽合成

目前有两种常用的合成方法：Boc（叔丁氧基羰基）和Fmoc（9-芴甲氧基羰基）合成法。与Boc法相比，Fmoc法更受欢迎，因为去除保护基可以在较温和的条件下进行，而且从树脂中裂解出肽的过程更简单。

![Peptide Synthesis by Fmoc Methods](image)

Figure 1. Peptide Synthesis by Fmoc Methods
从树脂中裂解和用裂解混合物去除保护基后，进行缩合反应，随后用甲醇沉淀。残留物进一步用HPLC纯化，最终得到目标肽。

【试剂】
- 树脂（预载型：与Fmoc-氨基酸的C-端键合）
- Fmoc-氨基酸（建议侧链保护）
- 缩合剂：1H-羟基苯并三唑-1-基氧基三吡咯烷基鏻鎓六氟磷酸盐
- 激活剂：1-羟基苯并三唑
- 溶剂：N,N-二甲基甲酰胺（低水含量为佳）
- 去保护试剂：哌啶
- 沉淀洗涤溶剂：甲醇，叔丁基甲醚
- 裂解混合物（用于从树脂中去除并去保护侧链）：三氟乙酸，苯酚，还原剂（由氨基酸残基决定）
- 隔离剂：二乙醚
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肽合成试剂

缩合剂
活化剂
Fmoc-脱保护剂

B1657 5g 25g 100g
B1658 5g 25g
C1988 1g 5g
C1926 5g 25g
D3262 5g

H0468 25g 500g
H1454 1g 5g
D3263 5g 25g
E0847 25g 100g
E0901 1g 5g

解理和固化剂
Cleavage and Work-up Agents

A0492 25g 500g
B0991 25mL 500mL
B1087 5mL 25mL 250mL
C0401 25g 500g

D0970 25mL 500mL
D0944 1g 5g 25g
E0032 25g 100g 500g
E0143 25mL 100mL
I0021 25g 100g 500g

M0093 25g 500g
M0097 500mL
M0346 25g 100g 500g
P1610 25g 500g
T0191 25mL 100mL 500mL

T0431 25g 100g 500g
T0662 25mL 250mL
T1533 5mL 25mL 100mL

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液相肽合成
Liquid Phase Peptide Synthesis

与通常的有机合成方法一样，液相肽合成是通过批处理技术将受保护氨基酸与缩合剂缩合而进行的，然后经过固化和纯化，生成的沉淀进一步与别的氨基酸缩合。缩合剂、活化剂和保护基团是基于不同目的选择的。未经商业化的用于保护氨基酸合成的保护剂也列于如下。

### 穗合剂
Condensing Agents

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<th>缩合剂</th>
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<tr>
<td>HATU（[148893-10-1]）</td>
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<td>TATU（[873798-09-5]）</td>
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<td>BOP-Cl（[156311-85-2]）</td>
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<td>BOP（[56602-33-6]）</td>
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<td>AOP（[5260-07-3]）</td>
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<td>HBTU（[94790-37-1]）</td>
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### 保护基
Protection Groups

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<tr>
<td>Diethyl Cyanophosphonate（[2942-58-7]）</td>
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<td>1-Chloro-1-pyrrolidinylmethylpyrrolidinium Tetrafluoroborate（[150007-14-2]）</td>
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<td>DMC（25% in Dichloromethane）（[37091-73-9]）</td>
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<td>PyClU（[133894-48-1]）</td>
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<td>DIC（[693-13-0]）</td>
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<td>2,2'-Dipyrilidyl Disulfide（[2127-03-9]）</td>
<td></td>
<td></td>
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</tbody>
</table>
References


4) 泷屋伐夫. ペプチド合成の基礎と実験. 丸善, 1985.

TCI 梯希爱（上海）化成工业发展有限公司

试剂热线：800-988-0390或021-67121386
大包装热线：800-988-1865
传真：021-67121385
邮箱：Sales-CN@TCIchemicals.com
地址：上海化学工业区普工路96号
邮编：201507

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