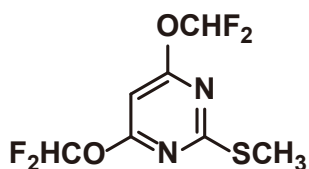
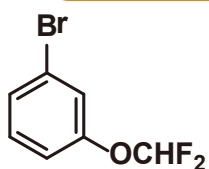


Difluoromethylated Compounds

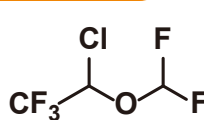
Building Blocks



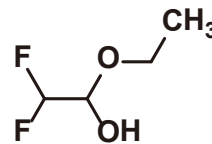
4,6-Bis(difluoromethoxy)-2-(methylthio)pyrimidine
5g / 25g
[B2755]



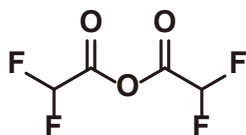
1-Bromo-3-(difluoromethoxy)benzene
1g / 5g
[B4189]



1-Chloro-2,2,2-trifluoroethyl Difluoromethyl Ether
5g / 25g
[C2485]



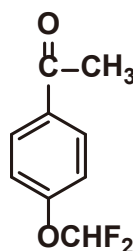
Difluoroacetaldehyde Ethyl Hemiacetal
5g / 25g
[D2523]



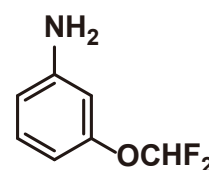
Difluoroacetic Anhydride
5g
[D4164]



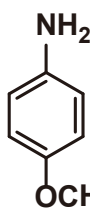
2,2-Difluoroethanol
5g
[D4128]



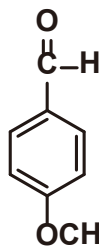
4'-(Difluoromethoxy)acetophenone
1g / 5g
[D4760]



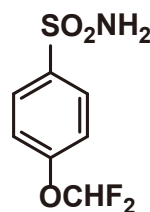
3-(Difluoromethoxy)aniline
5g
[D3456]



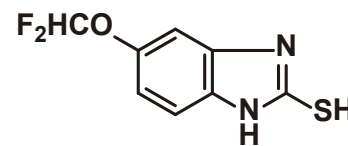
4-(Difluoromethoxy)aniline
5g
[D3457]



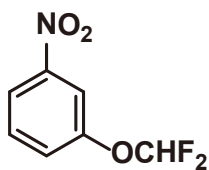
4-(Difluoromethoxy)benzaldehyde
1g / 5g
[D4334]



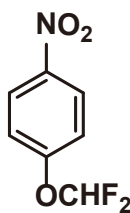
4-(Difluoromethoxy)benzenesulfonamide
1g / 5g
[D4778]



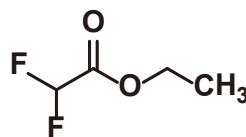
5-(Difluoromethoxy)-2-mercaptobenzimidazole
25g
[D3438]



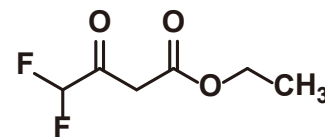
3-(Difluoromethoxy)nitrobenzene
5g
[D2615]



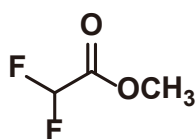
4-(Difluoromethoxy)nitrobenzene
5g
[D2601]



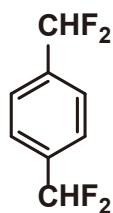
Ethyl Difluoroacetate
5g / 25g
[D2498]



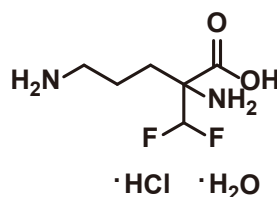
Ethyl 4,4-Difluoroacetoacetate
5g / 25g
[E1018]



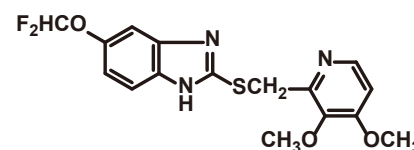
Methyl Difluoroacetate
5g / 25g
[M2021]



$\alpha,\alpha,\alpha',\alpha'$ -Tetrafluoro-*p*-xylene
5g / 25g
[T1774]



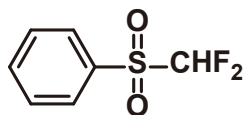
Eflornithine Hydrochloride Monohydrate
200mg
[E0947]



Pantoprazole Sulfide
1g / 5g
[P2066]

Difluoromethylation Reagent

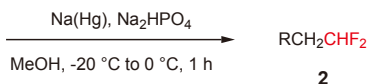
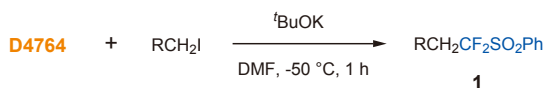
● Difluoromethyl Anion Equivalent



Difluoromethyl Phenyl Sulfone

1g / 5g

[D4764]

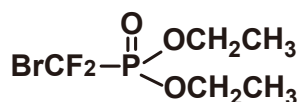


Desulfonylation

RCH ₂ I	1 (Yield %)	2 (Yield %)
Ph(CH ₂) ₄ I	Ph(CH ₂) ₄ CF ₂ SO ₂ Ph 52	Ph(CH ₂) ₄ CHF ₂ 87
Ph(CH ₂) ₅ I	Ph(CH ₂) ₅ CF ₂ SO ₂ Ph 59	Ph(CH ₂) ₅ CHF ₂ 90
Ph(CH ₂) ₆ I	Ph(CH ₂) ₆ CF ₂ SO ₂ Ph 50	Ph(CH ₂) ₆ CHF ₂ 85
PhO(CH ₂) ₃ I	PhO(CH ₂) ₃ CF ₂ SO ₂ Ph 71	PhO(CH ₂) ₃ CHF ₂ 91
PhO(CH ₂) ₄ I	PhO(CH ₂) ₄ CF ₂ SO ₂ Ph 60	PhO(CH ₂) ₄ CHF ₂ 88

G. K. S. Prakash, J. Hu, Y. Wang, G. A. Olah, *Org. Lett.* **2004**, 6, 4315.

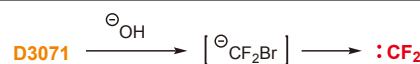
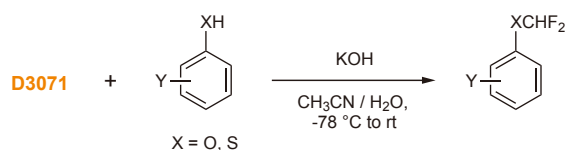
● Difluorocarbene Precursor



Diethyl (Bromodifluoromethyl)phosphonate

5g / 25g

[D3071]



Phenol or Thiophenol	Product	Yield (%)
		87
		98
		91
		88
		96

Y. Zafrani, G. Sod-Moriah, Y. Segall, *Tetrahedron.* **2009**, 65, 5278.

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