

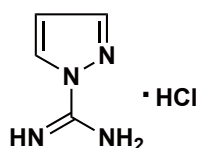
Guanidinylation Reagents

The guanidine structure is a basic skeleton of bioactive substances. For instance, saxitoxin and tetrodotoxin derived from puffer toxin, and batzelladine A as an HIV inhibitor in sea sponge are known as compounds bearing a guanidino group. Also pharmaceutical compounds like antimalarial and antimicrobial agents often have guanidine structure. Guanidinylation reagents are used for the synthesis of guanidine derivatives in the drug discovery field.¹⁾

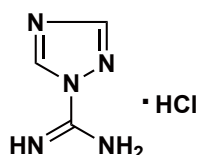
1) A. Mishra, S. Batra, *Curr. Top. Med. Chem.* **2013**, 13, 2011.

Pyrazole-type Guanidinylation Reagents

N,N'-Unsubstituted

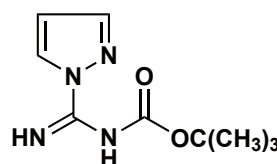


1-Amidinopyrazole Hydrochloride
5g / 25g
[A2055]



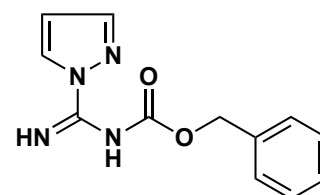
1-Carbamimidoyl-1,2,4-triazole Hydrochloride
1g / 5g
[T3124]

N-Boc



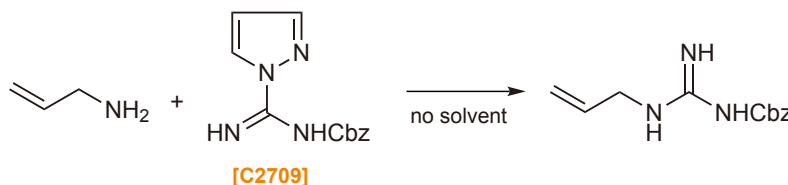
1-(*N*-Boc-amidino)pyrazole
5g
[B4028]

N-Cbz



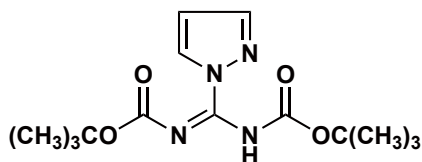
1-(*N*-Cbz-amidino)pyrazole
1g / 5g
[C2709]

Application



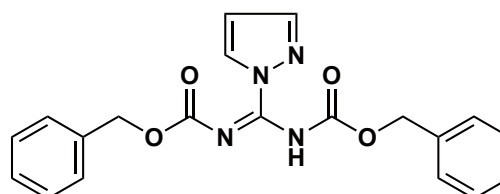
M. Daniel, F. Blanchard, S. Nocquet-Thibault, K. Cariou, R. H. Dodd, *J. Org. Chem.* **2015**, 80, 10624.

N,N'-Di-Boc



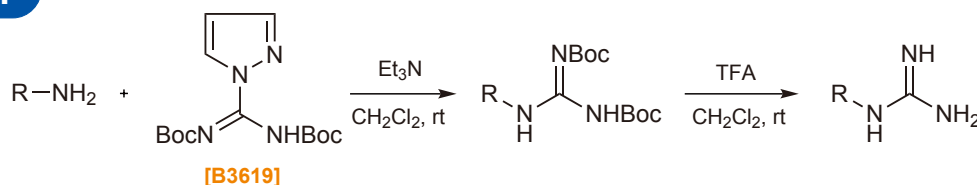
1-[*N,N'*-(Di-Boc)amidino]pyrazole
1g / 5g
[B3619]

N,N'-Di-Cbz



1-[*N,N'*-(Di-Cbz)amidino]pyrazole
1g / 5g
[B3605]

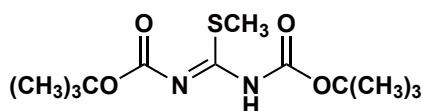
Application



T. Noguchi, B. Roy, D. Yoshihara, J. Sakamoto, T. Yamamoto, S. Shinkai, *Angew. Chem. Int. Ed.* **2016**, 55, 5708.

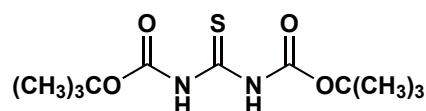


Sulfur-type Guanidinylation Reagents



***N,N'*-Di-Boc-S-methylisothiourea**

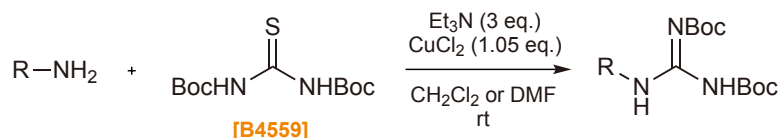
5g / 25g
[B4535]



1,3-Di-Boc-thiourea

1g / 5g
[B4559]

Application



B. Kelly, I. Rozas, *Tetrahedron Lett.* **2013**, 54, 3982.

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