

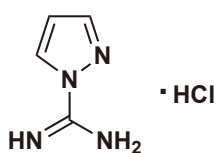
# Guanidinylation Reagents

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.<sup>1)</sup>

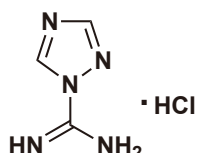
1) A. Mishra, S. Batra, *Curr. Top. Med. Chem.* **2013**, *13*, 2011.

## Pyrazole-type Guanidinylation Reagents

### *N,N'*-Unsubstituted

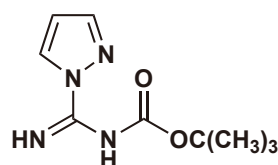


**1-Amidinopyrazole Hydrochloride**  
5g / 25g  
[A2055]



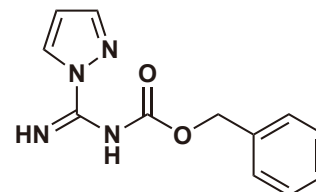
**1-Carbamimidoyl-1,2,4-triazole Hydrochloride**  
1g / 5g  
[T3124]

### *N*-Boc



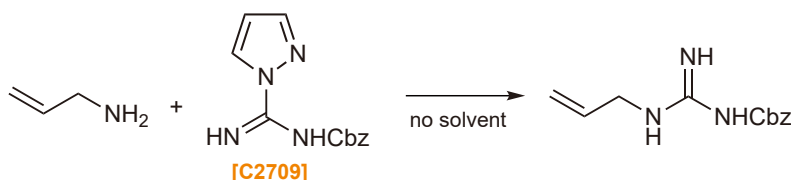
**1-(*N*-Boc-amidino)pyrazole**  
5g  
[B4028]

### *N*-Cbz



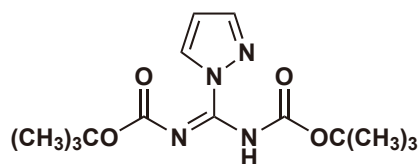
**1-(*N*-Cbz-amidino)pyrazole**  
1g / 5g  
[C2709]

### Application



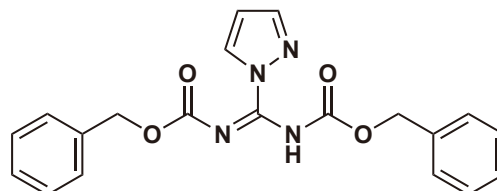
M. Daniel, F. Blanchard, S. Nocquet-Thibault, K. Cariou, R. H. Dodd, *J. Org. Chem.* **2015**, *80*, 10624.

### *N,N'*-Di-Boc



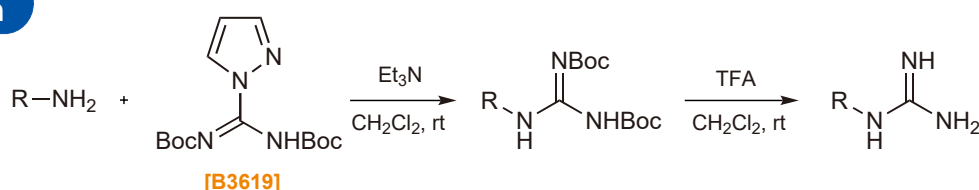
**1-[*N,N'*-(Di-Boc)amidino]pyrazole**  
1g / 5g  
[B3619]

### *N,N'*-Di-Cbz



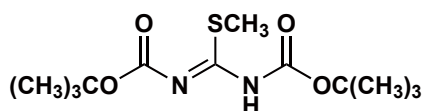
**1-[*N,N'*-(Di-Cbz)amidino]pyrazole**  
1g / 5g  
[B3605]

### Application



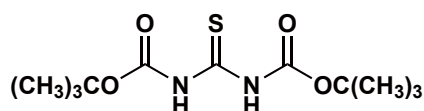
T. Noguchi, B. Roy, D. Yoshihara, J. Sakamoto, T. Yamamoto, S. Shinkai, *Angew. Chem. Int. Ed.* **2016**, *55*, 5708.

## Sulfur-type Guanidinylation Reagents



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

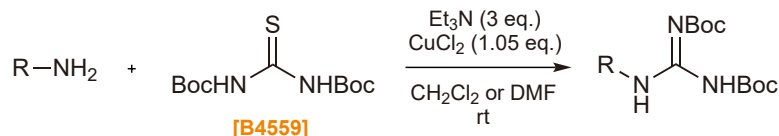
5g / 25g  
[B4535]



**1,3-Di-Boc-thiourea**

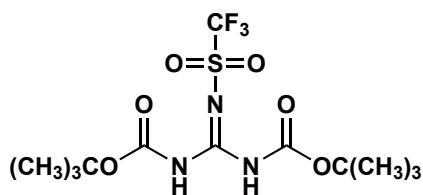
1g / 5g  
[B4559]

### Application



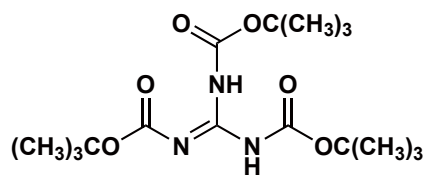
B. Kelly, I. Rozas, *Tetrahedron Lett.* **2013**, 54, 3982.

## Others



**Goodman's Reagent**

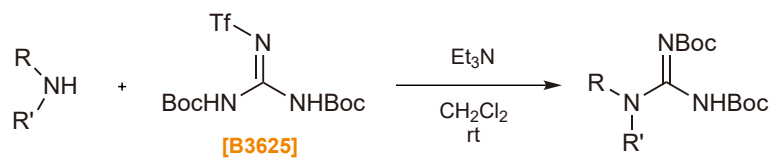
1g / 5g  
[B3625]



**1,2,3-Tri-Boc-guanidine**

1g / 5g  
[T2964]

### Application



K. Feichtinger, C. Zapf, H. L. Sings, M. Goodman, *J. Org. Chem.* **1998**, 63, 3804.

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