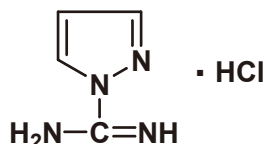


# Guanidines

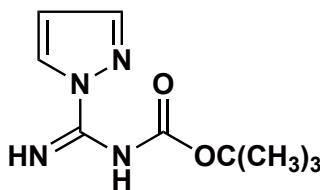
L-Arginine, a natural  $\alpha$ -amino acid, is a prominent guanidine compound, which has a significant role in binding to DNA in protein. It is also known that guanidine alkaloids such as saxitoxin and tetrodotoxin are made biosynthetically from arginine. Recently it has been reported that peptides containing many arginines have high cell permeability,<sup>1)</sup> so applications in medicinal chemistry or biochemistry are expected.

1) *J. Am. Chem. Soc.*, **2004**, 126, 9506; *J. Am. Chem. Soc.*, **2005**, 127, 1114.

## Guanidinating Reagents

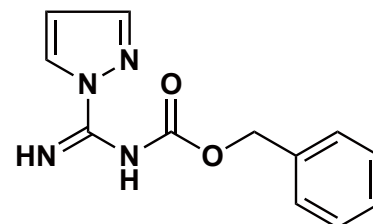


**1-Amidinopyrazole Hydrochloride**  
[A2055]



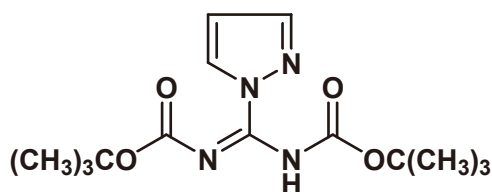
***N*-(*tert*-Butoxycarbonyl)-*1H*-pyrazole-1-carboxamide**  
[B4028]

**New**

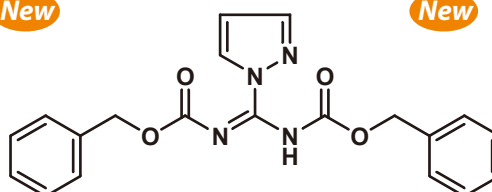


***N*-(Carbobenzyloxy)-*1H*-pyrazole-1-carboxamide**  
[C2709]

**New**

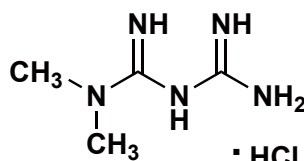


***N,N'*-Bis(*tert*-butoxycarbonyl)-*1H*-pyrazole-1-carboxamide**  
[B3619]



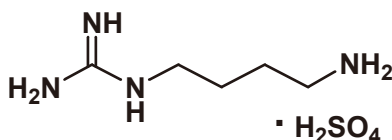
***N,N'*-Bis(carbobenzyloxy)-*1H*-pyrazole-1-carboxamide**  
[B3605]

## Bioactive Compounds

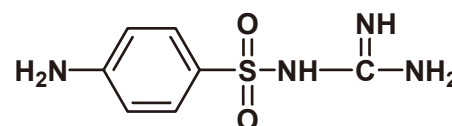


**Metformin Hydrochloride**  
[M2009]

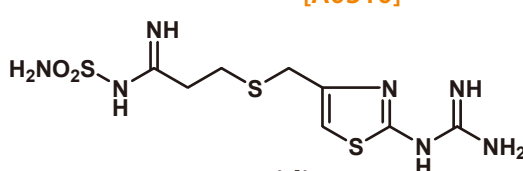
**New**



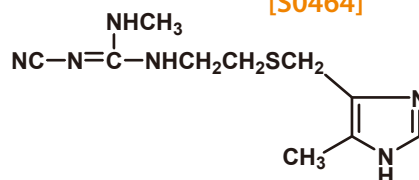
**Agmatine Sulfate**  
[A0310]



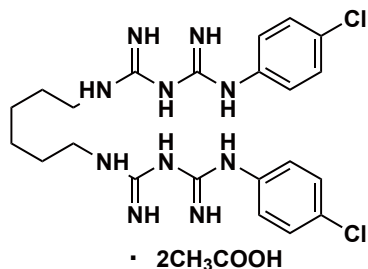
**Sulfaguanidine**  
[S0464]



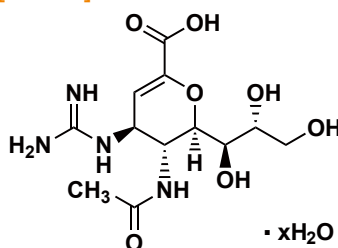
**Famotidine**  
[F0530]



**Cimetidine**  
[C1252]

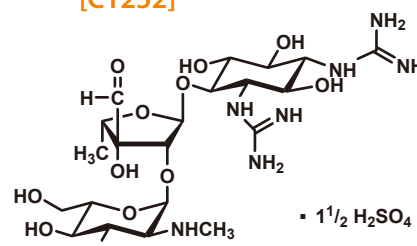


**Chlorhexidine Diacetate** [C2511]  
**Dihydrochloride** [C1254]



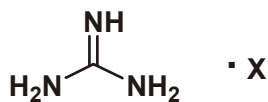
**Zanamivir Hydrate**  
[Z0023]

**New**

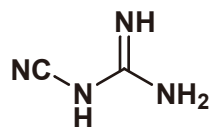


**Streptomycin Sulfate**  
[S0585]

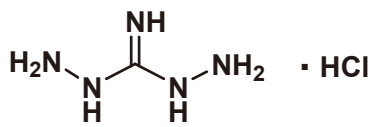
## Guanidine Blocks



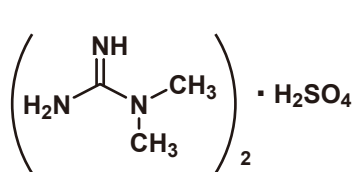
- X=1/2H<sub>2</sub>CO<sub>3</sub> Guanidine Carbonate [G0161]  
 X=HCl Guanidine Hydrochloride [G0162]  
 X=HNO<sub>3</sub> Guanidine Nitrate [G0164]  
 X=1/2H<sub>3</sub>PO<sub>4</sub> Guanidine Phosphate [G0165]  
 X=1/2H<sub>2</sub>SO<sub>4</sub> Guanidine Sulfate [G0166]  
 X=HSCN Guanidine Thiocyanate [G0230]  
 X=NH<sub>2</sub>SO<sub>3</sub>H Guanidine Sulfamate [G0022]



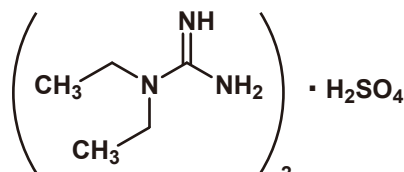
Cyanoguanidine  
[C0454]



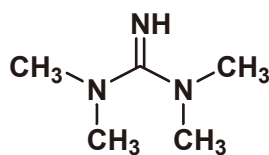
1,3-Diaminoguanidine  
Hydrochloride  
[D1912]



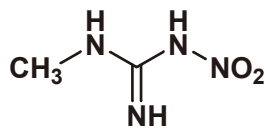
1,1-Dimethylguanidine  
Sulfate  
[D1799]



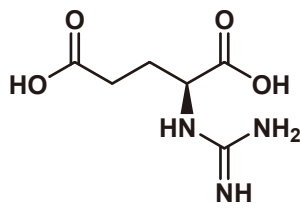
1,1-Diethylguanidine  
Sulfate  
[D2035]



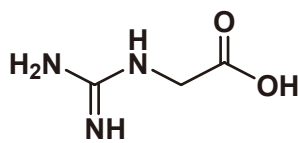
1,1,3,3-Tetramethylguanidine  
[T0148]



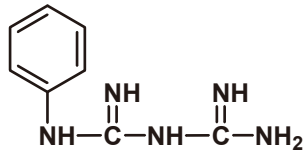
1-Methyl-3-nitroguanidine  
(wetted with ca. 25% Water)  
[M0749]



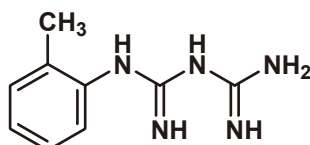
(S)-(-)-2-Guanidinoglutaric Acid  
[G0265]



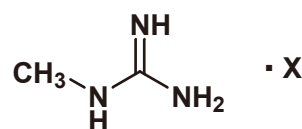
Guanidoacetic Acid  
[G0167]



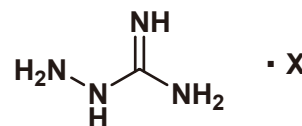
Phenylbiguanide  
[P1002]



1-(o-Tolyl)biguanide  
[T0314]

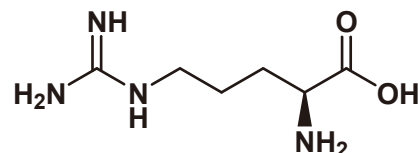


- X=HCl 1-Methylguanidine Hydrochloride [M0336]  
 X=1/2H<sub>2</sub>SO<sub>4</sub> 1-Methylguanidine Sulfate [M1691]



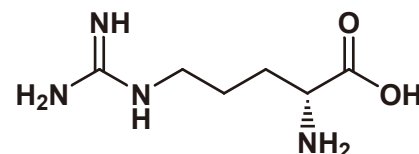
- X=H<sub>2</sub>CO<sub>3</sub> Aminoguanidine Bicarbonate [A0307]  
 X=1/2H<sub>2</sub>SO<sub>4</sub> · xH<sub>2</sub>O Aminoguanidine Sulfate Hydrate [A0309]

- X=HCl Aminoguanidine Hydrochloride [A1129]



L-Arginine

- H-Arg-OH [A0526]  
 H-Arg-OH·HCl [A0528]  
 H-Arg-OMe·2HCl [A2017]  
 Boc-Arg-OH·HCl Monohydrate [B1626]  
 Boc-Arg-pNA·HCl [B1497]  
 Bz-Arg-OEt·HCl [B0853]  
 Z-Arg-OH [C0757]  
 α,ω-Di-Z-Arg-OH [D1179]  
 Z-Arg(Z)<sub>2</sub>-OH [T0755]  
 Dnp-Arg-OH [D1040]  
 Fmoc-Arg(Tos)-OH [F0883]  
 Fmoc-Arg(Pbf)-OH [F0729]  
 H-Arg(NO<sub>2</sub>)-OH [N0660]  
 H-Arg(NO<sub>2</sub>)-OMe·HCl [N0661]  
 Tos-Arg-OH [T0684]  
 Tos-Arg-OMe·HCl [T0330]



D-Arginine

- H-D-Arg-OH [A1029]  
 H-D-Arg-OMe·2HCl [A2016]  
 Boc-D-Arg-OH·HCl Monohydrate [B2204]  
 Z-D-Arg-OH [C2131]  
 Fmoc-D-Arg(Pbf)-OH [F0875]

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