

1-Methylguanidine hydrochloride

Chemical Properties

CAS No. : 21770-81-0

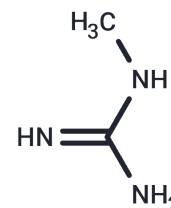
Formula: C₂H₈ClN₃

Molecular Weight: 109.56

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

HCl



Biological Description

Description	Methylguanidine (MG) is a guanidine compound deriving from protein catabolism. It is also a product of putrefaction. Methylguanidine is a suspected uraemic toxin that accumulates in renal failure, however it also exhibits anti-inflammatory effects. Methylguanidine is synthesized from creatinine concomitant with the synthesis of hydrogen peroxide from endogenous substrates in peroxisomes. Recent evidence suggests that methylguanidine significantly inhibits iNOS activity and TNF- release. This means that methylguanidine can attenuate the degree of inflammation and tissue damage associated with endotoxic shock.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 55 mg/mL (502.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.1274 mL	45.6371 mL	91.2742 mL
5 mM	1.8255 mL	9.1274 mL	18.2548 mL
10 mM	0.9127 mL	4.5637 mL	9.1274 mL
50 mM	0.1825 mL	0.9127 mL	1.8255 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Silwood CJ, Lynch E, Claxson AW, Grootveld MC: ^1H and (^{13}C) NMR spectroscopic analysis of human saliva. J Dent Res. 2002 Jun;81(6):422-7.

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