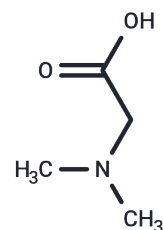


N-Methylsarcosine

Chemical Properties

CAS No. :	1118-68-9
Formula:	C ₄ H ₉ NO ₂
Molecular Weight:	103.12
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	N-Methylsarcosine (Dimethylglycine) is used as an athletic performance enhancer and immunostimulant. It is also used in the treatment of autism, epilepsy and mitochondrial disease. It is also employed as a biomarker of protein degradation in chronic obstructive lung disease (COPD) patients. Further, it is used as a substrate to identify, differentiate and characterize amino acid methyltransferase. It plays an important role in the development of glycine-based ionic liquids and emulsifiers.
Targets(IC50)	Amino Acids and Derivatives,Endogenous Metabolite,iGluR

Solubility Information

Solubility	H ₂ O: 250 mg/mL (2424.36 mM) DMSO: 3 mg/mL (29.09 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	9.6974 mL	48.4872 mL	96.9744 mL
5 mM	1.9395 mL	9.6974 mL	19.3949 mL
10 mM	0.9697 mL	4.8487 mL	9.6974 mL
50 mM	0.1939 mL	0.9697 mL	1.9395 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

Kapustin E A, et al. One Hydrogen Bond–Two Ways To Build a Structure. The Role of N-H···O Hydrogen Bonds in Crystal Structures of N,N-Dimethylglycine[J]. Crystal Growth & Design, 2014, 14(4):1851–1864.

Mcentyre C J, et al. Variation of betaine, N,N-dimethylglycine, choline, glycerophosphorylcholine, taurine and trimethylamine-N-oxide in the plasma and urine of overweight people with type 2 diabetes over a two-year period.[J]. Annals of Clinical Biochemistry, 2015, 52(Pt 3):352.

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