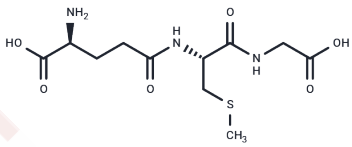
Data Sheet (Cat.No.T24807)

TargetMol

S-Methylglutathione

Chemical Properties



CAS No. : 2922-56-7

Formula: C11H19N3O6S

Molecular Weight: 321.35

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	S-Methylglutathione (S-Methyl glutathione) is an S-substituted glutathione, an inhibitor of the 1-chloro-2,4-dinitrobenzene coupling catalyzed by transferase A and an XOCl scavenger.S-Methylglutathione inhibits glyoxalase 1 (glyoxalase 1), which induces the development of the glyoxalase 1 enzyme. S-Methylglutathione inhibits glyoxalase 1 (glyoxalase 1) and induces the formation of hydroid tentacle balls.
Targets(IC50)	Glyoxalase

Solubility Information

Solubility	H2O: 15 mg/mL (46.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1119 mL	15.5594 mL	31.1187 mL
5 mM	0.6224 mL	3.1119 mL	6.2237 mL
10 mM	0.3112 mL	1.5559 mL	3.1119 mL
50 mM	0.0622 mL	0.3112 mL	0.6224 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

Terwilliger TC,et al. S-methyl glutathione synthesis is catalyzed by the cheR methyltransferase in Escherichia coli. J Bacteriol. 1986 Mar;165(3):958-63.
Manabe Y, et al. Suppression of S-methylglutathione-induced tentacle ball formation by peptides and nullification of the suppression by TGF-beta in Hydra. Chem Senses. 2000 Apr;25(2):173-80.
Bobrowski K,et al. Sulfur radical cation-peptide bond complex in the one-electron oxidation of S-methylglutathione. J Am Chem Soc. 2007 Jul 25;129(29):9236-45.
Müller M,et al. High-performance liquid chromatography/fluorescence detection of S-methylglutathione formed by glutathione-S-transferase T1 in vitro. Arch Toxicol. 2001 Feb;74(12):760-7.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481