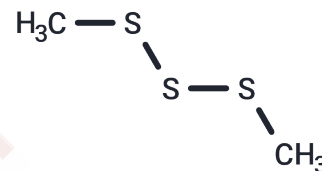


Dimethyl Trisulfide

Chemical Properties

CAS No. :	3658-80-8
Formula:	C ₂ H ₆ S ₃
Molecular Weight:	126.26
Storage:	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	Dimethyl trisulfide is the simplest organic trisulfide found in garlic, onion, broccoli, and similar plants. Dimethyl trisulfide is a cyanide antidote.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 100 mg/mL (792.02 mM),Sonication is recommended. H ₂ O: 1 mg/mL (7.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (31.68 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.9202 mL	39.6008 mL	79.2016 mL
5 mM	1.584 mL	7.9202 mL	15.8403 mL
10 mM	0.792 mL	3.9601 mL	7.9202 mL
50 mM	0.1584 mL	0.792 mL	1.584 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

Rockwood GA, et al. Dimethyl trisulfide: A novel cyanide countermeasure. Toxicol Ind Health. 2016 Dec;32(12):2009-2016.

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