

Methyl propyl disulfide

Chemical Properties

CAS No. : 2179-60-4

Formula: C₄H₁₀S₂

Molecular Weight: 122.25

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	Methyl propyl disulfide is a natural compound containing volatile sulfur produced in garlic and onions. Methyl propyl disulfide displays an anticancer effect.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 100 mg/mL (818 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 (32.72 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	8.180 mL	40.8998 mL	81.7996 mL
5 mM	1.636 mL	8.180 mL	16.3599 mL
10 mM	0.818 mL	4.090 mL	8.180 mL
50 mM	0.1636 mL	0.818 mL	1.636 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

T Matsuda, et al. Dose-dependent inhibition of glutathione S-transferase placental form-positive hepatocellular foci induction in the rat by methyl propyl disulfide and propylene sulfide from garlic and onions. *Cancer Lett.* 1994 Nov 11;86(2):229-34.

Rajkumar Nandakumar, et al. Impact of Pulsed Electric Fields on the Volatile Compounds Produced in Whole Onions (*Allium cepa* and *Allium fistulosum*). *Foods.* 2018 Nov 7;7(11):183.

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