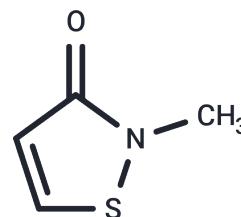


Methylisothiazolinone

Chemical Properties

CAS No. :	2682-20-4
Formula:	C ₄ H ₅ NOS
Molecular Weight:	115.15
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	Methylisothiazolinone (MI) is a powerful synthetic biocide and preservative within the group of isothiazolinones.
Targets(IC50)	Apoptosis,MMP,Antibacterial,Antifungal

Solubility Information

Solubility	DMSO: 27.5 mg/mL (238.82 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: 2 mg/mL (17.37 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	8.6843 mL	43.4216 mL	86.8432 mL
5 mM	1.7369 mL	8.6843 mL	17.3686 mL
10 mM	0.8684 mL	4.3422 mL	8.6843 mL
50 mM	0.1737 mL	0.8684 mL	1.7369 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

Hill H, Goldenberg A, Golkar L, Beck K, Williams J, Jacob SE. Pre-Emptive Avoidance Strategy (P.E.A.S.) - addressing allergic contact dermatitis in pediatric populations. *Expert Rev Clin Immunol.* 2016;12(5):551-61. doi: 10.1586/1744666X.2016.1142373. Epub 2016 Feb 29. Review. PubMed PMID: 26764601.

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