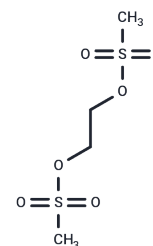


Ethylene dimethanesulfonate

Chemical Properties

CAS No. : 4672-49-5
 Formula: C₄H₁₀O₆S₂
 Molecular Weight: 218.25
 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	Ethylene dimethanesulfonate has selective pro-apoptotic effects on LCs. Ethylene dimethanesulfonate is a mild alkylating, non-volatile methanesulfonic diester of ethylene glycol.
Targets(IC ₅₀)	Apoptosis
In vivo	Ethylene dimethanesulfonate (subcutaneous injection; 75 mg/kg; 7 days) leads to sperm granuloma formation in rat and disrupts epididymal function.

Solubility Information

Solubility	DMSO: 95 mg/mL (435.28 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: 3.3 mg/mL (15.12 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	4.5819 mL	22.9095 mL	45.819 mL
5 mM	0.9164 mL	4.5819 mL	9.1638 mL
10 mM	0.4582 mL	2.291 mL	4.5819 mL
50 mM	0.0916 mL	0.4582 mL	0.9164 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

Dutta D, et al. Ethylene dimethane sulfonate (EDS) ablation of Leydig cells in adult rat depletes testosterone resulting in epididymal sperm granuloma: Testosterone replacement prevents granuloma formation. *Reprod Biol.* 2019 Mar;19(1):89-99.

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