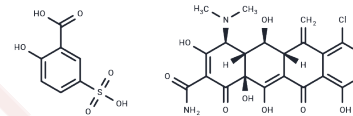


Meclocycline sulfosalicylate salt

Chemical Properties

CAS No. :	73816-42-9
Formula:	C ₂₂ H ₂₁ ClN ₂ O ₈ ·C ₇ H ₆ O ₆ S
Molecular Weight:	695.05
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	Meclocycline sulfosalicylate salt (Mecloderm), a tetracycline antibiotic, is used topically (i.e. for skin infections) as it is totally insoluble in water and may damage kidney and liver if given systemically.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 150 mg/mL (215.81 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 (5.75 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	1.4387 mL	7.1937 mL	14.3875 mL
5 mM	0.2877 mL	1.4387 mL	2.8775 mL
10 mM	0.1439 mL	0.7194 mL	1.4387 mL
50 mM	0.0288 mL	0.1439 mL	0.2877 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

Grio R, et al. Minerva Ginecol. 1986 Mar;38(3):163-5.

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