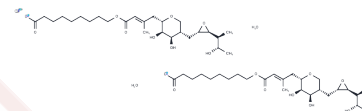


Mupirocin calcium hydrate

Chemical Properties

CAS No. :	115074-43-6
Formula:	C ₅₂ H ₈₆ CaO ₁₈ .2H ₂ O
Molecular Weight:	1075.34
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	Mupirocin calcium hydrate is an antibiotic produced by <i>Pseudomonas fluorescens</i> , showed a high level of activity against staphylococci and streptococci and against certain gram-negative bacteria
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	Ethanol: 100 mg/mL (92.99 mM), Sonication is recommended. DMSO: 100 mg/mL (92.99 mM), Sonication is recommended. H ₂ O: 6 mg/mL (5.58 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 (3.07 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	0.9299 mL	4.6497 mL	9.2994 mL
5 mM	0.186 mL	0.9299 mL	1.8599 mL
10 mM	0.093 mL	0.465 mL	0.9299 mL
50 mM	0.0186 mL	0.093 mL	0.186 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

Parenti M A , Hatfield S M , Leyden J J . Mupirocin: A topical antibiotic with a unique structure and mechanism of action[J]. Clinical pharmacy, 1987, 6(10):761-770.

Sutherland R, et al. Antibacterial activity of mupirocin (pseudomonic acid), a new antibiotic for topical use. Antimicrob Agents Chemother. 1985 Apr;27(4):495-8.

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