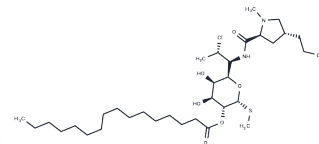


Clindamycin palmitate hydrochloride

Chemical Properties

CAS No. :	25507-04-4
Formula:	C ₃₄ H ₆₃ ClN ₂ O ₆ ·HCl
Molecular Weight:	699.85
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	Clindamycin palmitate hydrochloride (Clindamycin palmitate HCl) is a water soluble hydrochloride salt of the ester of clindamycin and palmitic acid and a lincosamide antibiotic.
Targets(IC50)	Antibacterial, Antibiotic
In vivo	After treatment of Cefoperazone (2 g, i.v.), levels in serum range from 202 µg/mL to 375 µg/mL depending on the period of drug administration. After intramuscular injection of 2 g of Cefoperazone, the mean peak serum level is 111 µg/mL at 1.5 hours. At 12 hours after dosing, mean serum levels are still 2 to 4 µg/mL. Cefoperazone is 90% bound to serum proteins.

Solubility Information

Solubility	H ₂ O: Soluble, DMSO: 140 mg/mL (200.04 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (4.72 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	1.4289 mL	7.1444 mL	14.2888 mL
5 mM	0.2858 mL	1.4289 mL	2.8578 mL
10 mM	0.1429 mL	0.7144 mL	1.4289 mL
50 mM	0.0286 mL	0.1429 mL	0.2858 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

Bystrzycka W, et al. Cent Eur J Immunol. 2016;41(1):1-5.

Bettoli V, Zauli S, Virgili A. G Ital Dermatol Venereol. 2016 Apr;107(2):216-8.

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