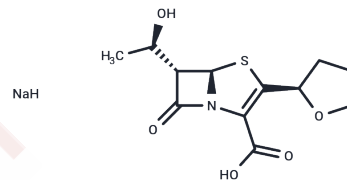


Faropenem sodium

Chemical Properties

CAS No. :	122547-49-3
Formula:	C ₁₂ H ₁₄ NNaO ₅ S
Molecular Weight:	307.3
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	Faropenem sodium is an orally bioavailable penem antibiotic effective in treating Mycobacterium tuberculosis, as well as tuberculosis and community-acquired pneumonia.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	H ₂ O: 100 mg/mL (325.41 mM), Sonication is recommended. DMSO: 45 mg/mL (146.44 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 (6.51 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	3.2541 mL	16.2707 mL	32.5415 mL
5 mM	0.6508 mL	3.2541 mL	6.5083 mL
10 mM	0.3254 mL	1.6271 mL	3.2541 mL
50 mM	0.0651 mL	0.3254 mL	0.6508 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

Uchino H , Tamai I , Yabuuchi H , et al. Faropenem Transport across the Renal Epithelial Luminal Membrane via Inorganic Phosphate Transporter Npt1[J]. Antimicrobial Agents & Chemotherapy, 2000, 44(3):574-577.

Dhar N, et al. Rapid cytolysis of Mycobacterium tuberculosis by faropenem, an orally bioavailable β -lactam antibiotic. Antimicrob Agents Chemother. 2015 Feb;59(2):1308-19.

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