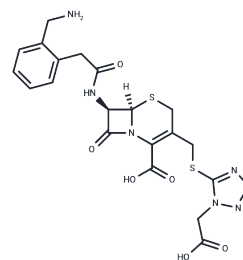


Ceforanide

Chemical Properties

CAS No. :	60925-61-3
Formula:	C ₂₀ H ₂₁ N ₇ O ₆ S ₂
Molecular Weight:	519.55
Storage:	Keep away from direct sunlight,Store under nitrogen, Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Ceforanide is a second-generation cephalosporin antibiotic with bactericidal activity. Ceforanide causes inhibition of bacterial cell wall synthesis by inactivating penicillin binding proteins (PBPs) thereby interfering with the final transpeptidation step required for cross-linking of peptidoglycan units which are a component of the cell wall.
Targets(IC50)	Antibacterial,Antibiotic

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 59.375 mg/mL (114.28 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: 2 mg/mL (3.85 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	1.9247 mL	9.6237 mL	19.2474 mL
5 mM	0.3849 mL	1.9247 mL	3.8495 mL
10 mM	0.1925 mL	0.9624 mL	1.9247 mL
50 mM	0.0385 mL	0.1925 mL	0.3849 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

Sifakis S, et al. Chemoprophylactic and bactericidal efficacy of 80 mg gentamicin in a single and once-daily dosing. Arch Gynecol Obstet. 2005 Sep;272(3):201-6.

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