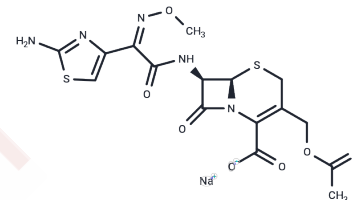


Cefotaxime sodium

Chemical Properties

CAS No. :	64485-93-4
Formula:	C ₁₆ H ₁₆ N ₅ NaO ₇ S ₂
Molecular Weight:	477.44
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	Cefotaxime is a third-generation cephalosporin antibiotic. Like other third-generation cephalosporins, it has broad spectrum activity against Gram positive and Gram negative bacteria. In most cases, it is considered to be equivalent to ceftriaxone in terms of safety and efficacy. Cefotaxime sodium (Cefotaxim sodium salt) is marketed under various trade names including Claforan (Sanofi-Aventis).
Targets(IC50)	Antibacterial, Antibiotic
In vitro	It has activity in presence of some beta-lactamases, both penicillinases and cephalosporinases of Gram negative and Gram positive bacteria. Its spectrum of activity includes most strains of bacterial pathogens responsible for septicaemia, respiratory tract infections, urinary tract infections, soft tissue infections, bone and joint infections, obstetric and gynaecological infections, and other various types of infections[1].

Solubility Information

Solubility	DMSO: 51 mg/mL (106.82 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: 25 mg/mL (52.36 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: 2.5 mg/mL (5.24 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	2.0945 mL	10.4725 mL	20.945 mL
5 mM	0.4189 mL	2.0945 mL	4.189 mL
10 mM	0.2095 mL	1.0473 mL	2.0945 mL
50 mM	0.0419 mL	0.2095 mL	0.4189 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

Azza S. Zakaria, et al. BioMed Research International. 2016.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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