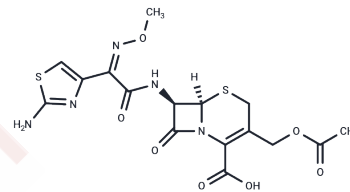


## Cefotaxime

## Chemical Properties

CAS No. :	63527-52-6
Formula:	C <sub>16</sub> H <sub>17</sub> N <sub>5</sub> O <sub>7</sub> S <sub>2</sub>
Molecular Weight:	455.47
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Cefotaxime is an inhibitor of penicillin binding protein.
Targets(IC50)	Anti-infection, Antibacterial, Antibiotic

## Solubility Information

Solubility	DMSO: 255 mg/mL (559.86 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 (7.25 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	2.1955 mL	10.9777 mL	21.9553 mL
5 mM	0.4391 mL	2.1955 mL	4.3911 mL
10 mM	0.2196 mL	1.0978 mL	2.1955 mL
50 mM	0.0439 mL	0.2196 mL	0.4391 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

Brogden R N , Heel R C , Speight T M , et al. Cefuroxime: A Review of its Antibacterial Activity, Pharmacological Properties and Therapeutic Use[J]. Drugs, 1979, 17(4):233-266.

Ronald, N, Jones. Cefotaxime and desacetylcefotaxime antimicrobial interactions: The clinical relevance of enhanced activity: A review[J]. Diagnostic Microbiology and Infectious Disease, 1995.

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