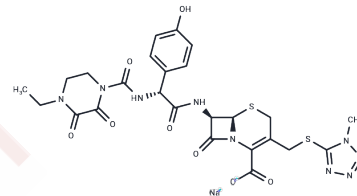


Cefoperazone sodium salt

Chemical Properties

CAS No. :	62893-20-3
Formula:	C ₂₅ H ₂₆ N ₉ NaO ₈ S ₂
Molecular Weight:	667.65
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	Cefoperazone sodium salt (CP 52640-2) is a broad-spectrum cephalosporin with a tetrazolyl moiety, utilized for the treatment of Pseudomonas infections.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 245 mg/mL (366.96 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 mM), Sonication is recommended. 10% DMSO+90% Saline: 24.5 mg/mL (36.7 mM), Suspension. <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	1.4978 mL	7.489 mL	14.9779 mL
5 mM	0.2996 mL	1.4978 mL	2.9956 mL
10 mM	0.1498 mL	0.7489 mL	1.4978 mL
50 mM	0.030 mL	0.1498 mL	0.2996 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

Fass RJ, Helsel VL. Diagn Microbiol Infect Dis. 1986 Jan;4(1):77-81.

Ma Z, Hou B, Liao A, et al. Light-Activable Inhibitor Overcomes Antimicrobial Resistance and Regulates Antibacterial Activity. Journal of Medicinal Chemistry. 2024

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