

Ceftiofur sodium

Chemical Properties

CAS No. : 104010-37-9

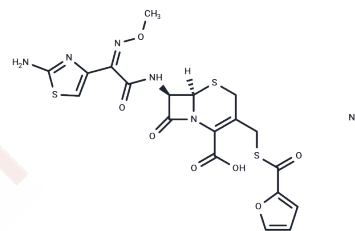
Formula: C₁₉H₁₆N₅NaO₇S₃

Molecular Weight: 545.54

Store at low temperature

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	Ceftiofur sodium (Naxcel), an antibiotic of the cephalosporin type (third generation), is used as veterinary medicine.
Targets(IC50)	NF-κB, Antibacterial, Antibiotic, Interleukin, p38 MAPK, TNF

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 40 mg/mL (73.32 mM), Sonication is recommended. DMSO: 240 mg/mL (439.93 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: 1 mg/mL (1.83 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	1.833 mL	9.1652 mL	18.3305 mL
5 mM	0.3666 mL	1.833 mL	3.6661 mL
10 mM	0.1833 mL	0.9165 mL	1.833 mL
50 mM	0.0367 mL	0.1833 mL	0.3666 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

Yancey RJ Jr, et al. Am J Vet Res. 1987 Jul; 48(7): 1050-3.

Yang Y, Hu Y, Yao F, et al. Virtual screening and activity evaluation of human uric acid transporter 1 (hURAT1) inhibitors. RSC Advances. 2023, 13(6): 3474-3486.

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