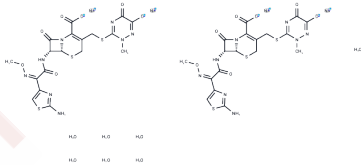


Ceftriaxone sodium hydrate

Chemical Properties

CAS No. : 104376-79-6
Formula: C₁₈H₁₆N₈Na₂O₇S₃·3.5H₂O
Molecular Weight: 661.6
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Ceftriaxone sodium hydrate is a broad-spectrum cephalosporin antibiotic with a very long half-life and high penetrability to meninges, eyes and inner ears.
Targets(IC50)	Antibacterial,Antibiotic
In vivo	Ceftriaxone maintains stability against β -lactamase enzymes produced by many bacteria, yet the β -lactamases from <i>B. fragilis</i> , some <i>Klebsiella</i> species, <i>P. vulgaris</i> , and <i>P. aeruginosa</i> can deactivate it. Ceftriaxone sodium trihydrate exhibits broad-spectrum in vitro activity against both Gram-positive and Gram-negative bacteria, aerobes, and certain anaerobes. It is effective against <i>Staphylococcus aureus</i> strains, whether penicillin-sensitive or penicillin-resistant (MIC ₉₀ , 2 to 8 mg/L). However, its efficacy is compromised against strains resistant to methicillin or oxacillin.

Solubility Information

Solubility	DMSO: 60 mg/mL (90.69 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5115 mL	7.5574 mL	15.1149 mL
5 mM	0.3023 mL	1.5115 mL	3.023 mL
10 mM	0.1511 mL	0.7557 mL	1.5115 mL
50 mM	0.0302 mL	0.1511 mL	0.3023 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.

Reference

Brogden RN, et al. Drugs, 1988, 35(6), 604-645.

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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