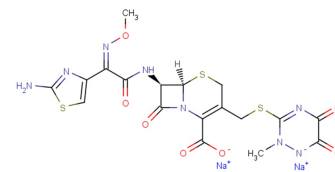


Ceftriaxone sodium salt

Chemical Properties

CAS No.:	74578-69-1
Formula:	C ₁₈ H ₁₈ N ₈ Na ₂ O ₇ S ₃ +
Molecular Weight:	600.56
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Ceftriaxone sodium salt is an antibiotic useful for the treatment of a number of bacterial infections.
Targets(IC ₅₀)	Others: None
In vitro	Ceftriaxone inhibits bacterial cell wall synthesis by means of binding to the penicillin-binding proteins (PBPs). Inhibition of PBPs would in turn inhibit the transpeptidation step in peptidoglycan synthesis which is required for bacterial cell walls. Like other cephalosporins, ceftriaxone is bacteriocidal and exhibits time-dependent killing. Ceftriaxone is a stimulator of EAAT2 expression with neuroprotective effects in both in vitro and in vivo models based in part on its ability to inhibit neuronal cell death by glutamate excitotoxicity.

Solubility Information

Solubility	DMSO: 50 mg/mL (83.26 mM) H ₂ O: 40 mg/mL (66.60 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.665 mL	8.326 mL	16.651 mL
5 mM	0.333 mL	1.665 mL	3.33 mL
10 mM	0.167 mL	0.833 mL	1.665 mL
50 mM	0.033 mL	0.167 mL	0.333 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Lee, S.G., et al., Mechanism of ceftriaxone induction of excitatory amino acid transporter-2 expression and glutamate uptake in primary human astrocytes. *J Biol Chem*, 2008. 283(19): p. 13116-23.

Inhibitors · Natural Compounds · Compound Libraries

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