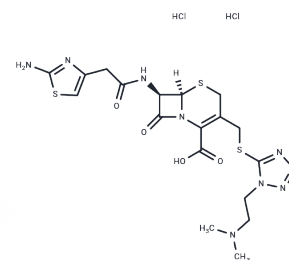


Cefotiam hydrochloride

Chemical Properties

CAS No. :	66309-69-1
Formula:	C ₁₈ H ₂₃ N ₉ O ₄ S ₃ .2HCl
Molecular Weight:	598.6
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Cefotiam hydrochloride (SCE-963 hydrochloride) is the hydrochloride salt form of cefotiam, a third-generation, semi-synthetic, beta-lactam cephalosporin antibiotic with antibacterial activity. Cefotiam binds to penicillin-binding proteins (PBPs), transpeptidases that are responsible for crosslinking of peptidoglycan. By preventing crosslinking of peptidoglycan, cell wall integrity is lost and cell wall synthesis is halted.
Targets(IC50)	Antibacterial,Antibiotic

Solubility Information

Solubility	DMSO: 50 mg/mL (83.53 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	1.6706 mL	8.3528 mL	16.7056 mL
5 mM	0.3341 mL	1.6706 mL	3.3411 mL
10 mM	0.1671 mL	0.8353 mL	1.6706 mL
50 mM	0.0334 mL	0.1671 mL	0.3341 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

Matsuda K, et al. Antimicrob Agents ChemOthers. 1995 Dec;39(12):2631-4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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