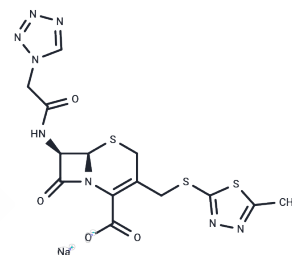


Cefazolin sodium

Chemical Properties

CAS No. :	27164-46-1
Formula:	C ₁₄ H ₁₃ N ₈ NaO ₄ S ₃
Molecular Weight:	476.48
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Cefazolin sodium (cephazolin sodium) salt binds to and inactivates penicillin-binding proteins (PBP) located on the inner membrane of the bacterial cell wall. Cefazolin sodium salt is the sodium salt of cefazolin, a beta-lactam antibiotic and first-generation cephalosporin with bactericidal activity. Inactivation of PBPs interferes with the cross-linkage of peptidoglycan chains necessary for bacterial cell wall strength and rigidity, which results in the weakening of the bacterial cell wall and cell lysis.
Targets(IC50)	Antibacterial,Antibiotic

Solubility Information

Solubility	DMSO: 50 mg/mL (104.94 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0987 mL	10.4936 mL	20.9872 mL
5 mM	0.4197 mL	2.0987 mL	4.1974 mL
10 mM	0.2099 mL	1.0494 mL	2.0987 mL
50 mM	0.042 mL	0.2099 mL	0.4197 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

Truesdell SE, et al. J Antimicrob ChemOthers. 1989 Apr;23 Suppl D:13-9.

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