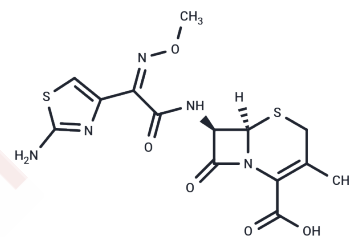


Cefetamet

Chemical Properties

CAS No. :	65052-63-3
Formula:	C ₁₄ H ₁₅ N ₅ O ₅ S ₂
Molecular Weight:	397.43
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Cefetamet is a third-generation cephalosporin and broad-spectrum antibiotic. It inhibits bacterial cell wall synthesis via PBP binding, effective against various Gram-negative pathogens.
Targets(IC50)	Antibacterial
In vitro	Cefetamet shows potent activity against Enterobacteriaceae and <i>S. pneumoniae</i> (MIC ₉₀ ≤ 2 ug/mL), but exhibits low affinity for <i>S. aureus</i> PBPs and lacks activity against Enterococcus. It effectively induces the lysis and death of <i>T. pallidum</i> at low concentrations (0.05-0.1 ug/mL) within 24 hours [2][3][4].
In vivo	In vivo, Cefetamet (1-30 mg/kg, IM) cures experimental syphilis in rabbits, with optimal efficacy when administered early. Pharmacokinetic studies in dogs confirm that its oral prodrug is rapidly converted into the active form, providing effective systemic antibacterial coverage [1][4].

Solubility Information

Solubility	DMSO: 20 mg/mL (50.32 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	2.5162 mL	12.5808 mL	25.1617 mL
5 mM	0.5032 mL	2.5162 mL	5.0323 mL
10 mM	0.2516 mL	1.2581 mL	2.5162 mL
50 mM	0.0503 mL	0.2516 mL	0.5032 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

Wise R, et al. In vitro activity of Ro 15-8074 and Ro 19-5247, two orally administered cephalosporin metabolites. *Antimicrob Agents Chemother.* 1986 Jun;29(6):1067-72.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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