

Cefepime

Chemical Properties

CAS No.:	88040-23-7
Formula:	C ₁₉ H ₂₄ N ₆ O ₅ S ₂
Molecular Weight:	480.56
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Cefepime is an antibiotic. Cefepime has been shown to be effective against febrile neutropenia.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.081 mL	10.405 mL	20.809 mL
5 mM	0.416 mL	2.081 mL	4.162 mL
10 mM	0.208 mL	1.040 mL	2.081 mL
50 mM	0.042 mL	0.208 mL	0.416 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. Tamma PD, Girdwood SC, Gopaul R, Tekle T, Roberts AA, Harris AD, Cosgrove SE, Carroll KC. The use of cefepime for treating AmpC β -lactamase-producing Enterobacteriaceae. Clin Infect Dis. 2013 Sep;57(6):781-8. doi: 10.1093/cid/cit395. Epub 2013 Jun 11. PubMed PMID: 23759352.
2. Saito H, Takahashi K, Okuno M, Saka H, Imaizumi K, Hasegawa Y, Tanikawa Y, Yamamoto M, Taniguchi H, Shindoh J, Suzuki R, Shimokata K; Central Japan Lung Study Group. Cefepime monotherapy for febrile neutropenia in patients with lung cancer. J Infect Chemother. 2014 Jun;20(6):365-9. doi: 10.1016/j.jiac.2014.02.002. Epub 2014 Mar 26. PubMed PMID: 24679653.
3. Fugate JE, Kalimullah EA, Hocker SE, Clark SL, Wijdicks EF, Rabinstein AA. Cefepime neurotoxicity in the intensive care unit: a cause of severe, underappreciated encephalopathy. Crit Care. 2013 Nov 7;17(6):R264. doi: 10.1186/cc13094. PubMed PMID: 24200036; PubMed Central PMCID: PMC4057506.
4. Nguyen HM, Shier KL, Graber CJ. Determining a clinical framework for use of cefepime and β -lactam/ β -lactamase inhibitors in the treatment of infections caused by extended-spectrum- β -lactamase-producing Enterobacteriaceae. J Antimicrob Chemother. 2014 Apr;69(4):871-80. doi: 10.1093/jac/dkt450. Epub 2013 Nov 20. Review. PubMed PMID: 24265230.

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