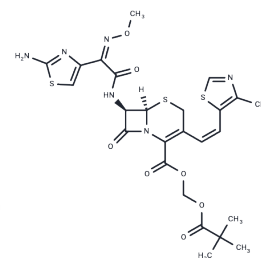


Cefditoren pivoxil

Chemical Properties

CAS No. :	117467-28-4
Formula:	C ₂₅ H ₂₈ N ₆ O ₇ S ₃
Molecular Weight:	620.72
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cefditoren Pivoxil is an orally active antibiotic with broad-spectrum antibacterial properties, and Cefditoren demonstrates potent inhibition against both Gram-negative and Gram-positive bacterial pathogens. Cefditoren exhibits a MIC ₅₀ of 0.25-0.5 mg/L against Streptococcus pneumoniae, Cefditoren is widely used for treating respiratory tract infections and skin infections. Cefditoren remains valuable in antimicrobial therapy owing to its favorable pharmacokinetic characteristics and reliable therapeutic efficacy.
Targets(IC ₅₀)	Antibacterial

Solubility Information

Solubility	DMSO: ≥ 80 mg/mL, 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	1.611 mL	8.052 mL	16.1103 mL
5 mM	0.3222 mL	1.611 mL	3.2221 mL
10 mM	0.1611 mL	0.8055 mL	1.611 mL
50 mM	0.0322 mL	0.1611 mL	0.3222 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

Wellington K, et al. Cefditoren pivoxil: a review of its use in the treatment of bacterial infections. *Drugs*. 2004;64 (22):2597-618.

Cafini F, et al. Enhanced in vivo activity of cefditoren in pre-immunized mice against penicillin-resistant *S. pneumoniae* (serotypes 6B, 19F and 23F) in a sepsis model. *PLoS One*. 2010 Aug 10;5(8):e12041.

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