

Product Data Sheet

Product Name: Cefditoren Pivoxil

Cat. No.: GC18036

Chemical Properties

Cas. No. 117467-28-4

Chemical Name 2,2-dimethylpropanoyloxymethyl (6R,7R)-7-[[[(2Z)-2-(2-amino-1,3-thiazol-4-yl)-2-methoxyiminoacetyl]amino]-3-[(Z)-2-(4-methyl-1,3-thiazol-5-yl)ethenyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate

SMILES CC1=C(SC=N1)C=CC2=C(N3C(C(C3=O)NC(=O)C(=NOC)C4=CSC(=N4)N)SC2)C(=O)OCOC(=O)C(C)(C)C

Formula C₂₅H₂₈N₆O₇S₃

M.Wt 620.72

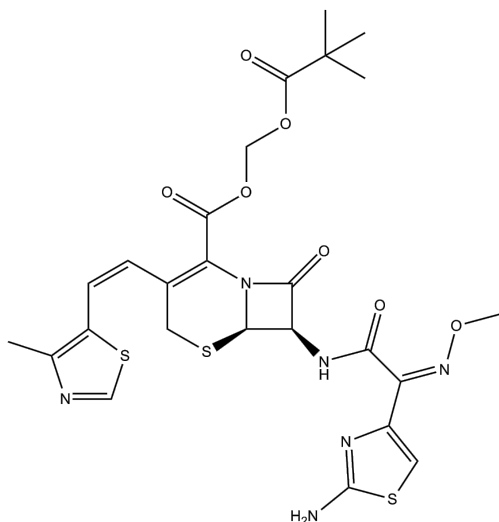
Solubility ≥ 20.05mg/mL in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Cefditoren pivoxil is a new-third generation cephalosporin antibiotic that has a broad spectrum of activity against Gram-positive and Gram-negative bacteria, including common respiratory and skin

Caution: Product has not been fully validated for medical applications. For research use only.

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pathogens. Target: Antibacterial Cefditoren pivoxil, a new-third generation cephalosporin antibiotic that has recently been granted approval in Spain, shows important activity over a large part of the pathogens causing skin, soft tissue and respiratory tract infections, including Gram-negative and Gram-positive bacteria. Cefditoren is also marketed under the name Meiact. Cefditoren has a broad spectrum of activity and has been used to treat bacterial infections of the skin and respiratory tract including bronchitis, pneumonia, and tonsillitis. The following represents MIC susceptibility data for a few medically significant microorganisms. Cefditoren has shown excellent in vitro activity against the Gram-positive pathogens penicillin-susceptible and -intermediate *Streptococcus pneumoniae*, *S. pyogenes* and methicillin-susceptible *Staphylococcus aureus*. Cefditoren was inactive against methicillin-resistant *S. aureus*. Of the important Gram-negative pathogens, cefditoren had potent antibacterial effects against beta-lactamase-positive and -negative *Haemophilus influenzae*, *H. parainfluenzae* and beta-lactamase-positive and -negative *Moraxella catarrhalis*.

References:

- [1]. Hernández-Martin J, et al. Cefditoren pivoxil: A new oral cephalosporin for skin, soft tissue and respiratory tract infections. *Rev Esp Quimioter.* 2006 Sep;19(3):231-46.
- [2]. Darkes MJ, et al. Cefditoren pivoxil. *Drugs.* 2002;62(2):319-36; discussion 337-8.

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