
Product Data Sheet

Product Name: Faropenem daloxate

Cat. No.: GC16344

Chemical Properties

Cas. No. 141702-36-5

Chemical Name (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl (5R,6S)-6-[(1R)-1-hydroxyethyl]-7-oxo-3-[(2R)-oxolan-2-yl]-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylate

SMILES CC1=C(OC(=O)O1)COC(=O)C2=C(SC3N2C(=O)C3C(C)O)C4CCCCO4Formula C₁₇H₁₉NO₈S M.Wt 397.41Solubility DMSO : ≥ 100 mg/mL (251.64 mM); H₂O : < 0.1 mg/mL (insoluble) 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**

Faropenem daloxate is the first oral penem in a new class of beta-lactam antibiotics. IC₅₀ Value: Target: Antibacterial Faropenem daloxate is useful for penem and antibiotics. Faropenem medoxomil has excellent in vitro activity against Streptococcus pneumoniae, Haemophilus influenzae and other key pathogens implicated in acute bacterial rhinosinusitis. Clinical studies have demonstrated that, in the treatment of acute bacterial rhinosinusitis in adults, 7 days of treatment with faropenem medoxomil is as clinically and bacteriologically effective as 10 days of treatment with cefuroxime axetil. One study showed faropenem medoxomil to be superior to cefuroxime axetil. Overall, the safety profile of faropenem medoxomil is similar to that of most comparators.

References:

[1]. Faqi AS, Lanphear C, Gill S, Colagiovanni DB. Juvenile toxicity study of faropenem

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

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medoxomil in beagle puppies.Reprod Toxicol. 2010 Dec;30(4):619-24. Epub 2010 Aug 11.

[2]. Hadley JA, Tillotson GS, Tosiello R, Echols RM.Faropenem medoxomil: a treatment option in acute bacterial rhinosinusitis.Expert Rev Anti Infect Ther. 2006 Dec;4(6):923-37.

[3]. Siegert R, Berg O, Gehanno P, Leiberman A, Martinkenas JL, Nikolaidis P, Arvis P, Alefelder M, Reimnitz P.Comparison of the efficacy and safety of faropenem daloxate and cefuroxime axetil for the treatment of acute bacterial maxillary sinusitis in adults.

[4]. Upchurch J, Rosemore M, Tosiello R, Kowalsky S, Echols R.Randomized double-blind study comparing 7- and 10-day regimens of faropenem medoxomil with a 10-day cefuroxime axetil regimen for treatment of acute bacterial sinusitis.Otolaryngol Head Neck Surg. 2

[5]. Gettig, Jacob P.; Crank, Christopher W.; Philbrik, Alexander H. Faropenem medoxomil. Annals of Pharmacotherapy (2008), 42(1), 80-90.

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