

Product Data Sheet

Product Name: Ceftazidime

Cat. No.: GC13587

Chemical Properties

Cas. No. 72558-82-8

Chemical Name 2-(((Z)-((Z)-2-(((6R,7R)-2-carboxy-8-oxo-3-(pyridin-1-ium-1-ylmethyl)-5-thia-1-azabicyclo[4.2.0]oct-2-en-7-yl)imino)-2-hydroxy-1-(2-imino-2,3-dihydrothiazol-4-yl)ethylidene)amino)oxy)-2-methylpropanoate

SMILES CC(C([O-])=O)(O/N=C(\C(O)=N[C@]([C@]1([H])N2C(C(O)=O)=C(CS1)C[N+]3=CC=CC=C3)([H])C2=O)C(N4)=CSC4=N)C

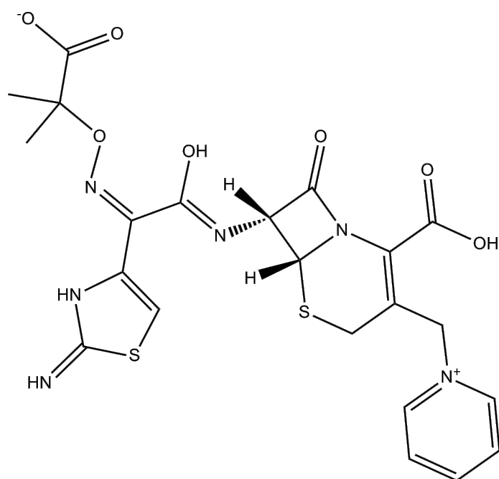
Formula $C_{22}H_{22}N_6O_7S_2$ M.Wt 546.58

Solubility >21.25mg/mL in DMSO; >50 mg/mL in Water Storage 4°C, protect from light

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

Ceftazidime (GR20263) is a third generation cephalosporin administered intravenously or intramuscularly. Ceftazidime has a broad spectrum of in vitro activity against Gram-positive and

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Gram-negative aerobic bacteria. Ceftazidime is particularly active against Enterobacteriaceae (including beta-lactamase-positive strains) and is resistant to hydrolysis by most beta-lactamases[1].

References:

[1]. Richards DM, et al. Ceftazidime. A review of its antibacterial activity, pharmacokinetic properties and therapeutic use. *Drugs*. 1985 Feb;29(2):105-61.

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