

Ceftobiprole

Chemical Properties

CAS No. : 209467-52-7

Formula: C₂₀H₂₂N₈O₆S₂

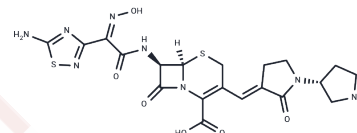
Molecular Weight: 534.57

Storage:

The compound is unstable in solution. Please use soon

Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ceftobiprole (Ro 63-9141) is a β -lactam antibacterial agent that exhibits potent bactericidal activity by binding to PBPs, inhibiting transpeptidation and formation of bacterial cell walls, leading to cell lysis and death, with a MIC ₉₀ value of 2 μ g/mL against methicillin-resistant <i>Staphylococcus aureus</i> .
Targets(IC50)	Antibacterial, Antibiotic
In vitro	Ceftobiprole (Ro 63-9141) has demonstrated activity against clinically important Gram-positive bacteria, including penicillin-resistant <i>Streptococcus pneumoniae</i> (PRSP), methicillin-resistant <i>Staphylococcus aureus</i> (MRSA), and <i>Enterobacter faecalis</i> with MIC ₉₀ values of 0.25, 2, and 2 mcg/mL, respectively; ceftobiprole has also shown in vitro activity against several clinical isolates of community-associated methicillin-resistant <i>Staphylococcus aureus</i> (CA-MRSA), vancomycin-intermediate <i>Staphylococcus aureus</i> (VISA), and vancomycin-resistant <i>Staphylococcus aureus</i> (VRSA) with a minimum inhibitory concentration (MIC) of 2 mcg/mL.

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble), Sonication is recommended. The compound is unstable in solution. Please use soon. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8707 mL	9.3533 mL	18.7066 mL
5 mM	0.3741 mL	1.8707 mL	3.7413 mL
10 mM	0.1871 mL	0.9353 mL	1.8707 mL
50 mM	0.0374 mL	0.1871 mL	0.3741 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

Kisgen J, et al. Ceftobiprole, a Broad-Spectrum Cephalosporin With Activity against Methicillin-Resistant Staphylococcus aureus (MRSA). P T. 2008 Nov;33(11):631-41.

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