
Product Data Sheet

Product Name: Ceftibuten

Cat. No.: GC15695

Chemical Properties

Cas. No. 97519-39-6

Chemical Name (6R,7R)-7-((Z)-((Z)-4-carboxy-1-hydroxy-2-(2-imino-2,3-dihydrothiazol-4-yl)but-2-en-1-ylidene)amino)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid

SMILES N=C1NC(C(/C(O)=N/[C@]([C@]2([H])N3C(C(O)=O)=CCS2)([H])C3=O)=C([H])/CC(O)=O)=CS1

Formula	C ₁₅ H ₁₄ N ₄ O ₆ S ₂	M.Wt	410.42
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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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**

Ceftibuten(Sch39720) is a third-generation cephalosporin antibiotic. IC₅₀:Target: Antibacterial Ceftibuten displayed high activity against Haemophilus influenzae and Branhamella catarrhalis. There was reduced activity against Streptococcus pneumoniae (MIC₉₀ 16 mg/l). The protein binding of Ceftibuten was 77% and the primary target site PBP 3. A high degree of stability to beta-lactamase hydrolysis was observed. [1]

References:

[1]. Wise R, et al. Ceftibuten--in-vitro activity against respiratory pathogens, beta-lactamase stability and mechanism of action. J Antimicrob Chemother, 1990. 26(2): p. 209-213.

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

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