Ceftibuten

Cat. No.: HY-B0698
CAS No.: 97519-39-6
Molecular Formula: C₁₅H₁₄N₄O₆S₂
Molecular Weight: 410.42
Target: Bacterial; Antibiotic
Pathway: Anti-infection
Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Ceftibuten (Sch39720), an antibiotic, is an orally active cephalosporin, possesses potent activity in vitro against a wide range of gram-negative and certain gram-positive pathogens

IC₅₀ & Target

β-lactam

In Vitro

Ceftibuten (Sch39720) is highly active against Haemophilus influenza, Escherichia coli, Klebsiella sp., and Proteus sp. and moderately active against Serratia sp. and Streptococcus pyogenes. Ceftibuten is relatively inactive against enterococci and staphylococci and is only weakly active against Pseudomonas aeruginosa and obligate anaerobes. It is also stable in the presence of most β-lactamase-producing organisms except β-Bacteroides fragilis. Ceftibuten is very active against strains of the family Enterobacteriaceae (mean MIC for 90% of strains=0.25 μg/ml) but less active against Campylobacter jejuni (mean MIC for 90% of strains=16.0 μg/ml)

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Ceftibuten, a biologically stable β-lactam antibiotic, has been shown to be transported by the small peptide transport system, to have relatively high affinity for the carrier and to show clear stereoselective and proton-gradient dependent transport characteristics in rat intestinal brush-border membrane vesicles

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CUSTOMER VALIDATION

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REFERENCES


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