

Moxifloxacin

Catalog No: tcsc1895



Available Sizes

Size: 50mg

Size: 100mg

Size: 500mg



Specifications

CAS No:

151096-09-2

Formula:

$C_{21}H_{24}FN_3O_4$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

401.43

Product Description

Moxifloxacin is a synthetic fluoroquinolone antibiotic agent.

Target: Antibacterial

Moxifloxacin is an extended-spectrum fluoroquinolone which has improved coverage against gram-positive cocci and atypical pathogens compared with older fluoroquinolone agents, while retaining good activity against gram-negative bacteria. The antibacterial spectrum of moxifloxacin includes all major upper and lower respiratory tract pathogens; it is one of the most active fluoroquinolones against pneumococci, including penicillin- and macrolide-resistant strains [1]. Moxifloxacin has limited phototoxic potential. In clinical trials, moxifloxacin had clinical success rates of 88-97% and bacteriologic eradication rates of 90-97%. Moxifloxacin is a safe and effective antimicrobial that will be useful for treating acute sinusitis, acute bacterial exacerbations of chronic bronchitis, and community-acquired pneumonia [2]. Moxifloxacin possibly stimulates lipid peroxidation and enhances phagocytosis, as depicted by MDA production and survival prolongation, without being toxic as depicted by white blood cell count [3].

Clinical indications: Abdominal abscess; Acute bronchitis; Acute sinusitis; Bacterial infection

Toxicity: Symptoms of overdose include CNS and gastrointestinal effects such as decreased activity, somnolence, tremor, convulsions, vomiting, and diarrhea. The minimal lethal intravenous dose in mice and rats is 100 mg/kg.



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