Besifloxacin Hydrochloride

Cat. No.: HY-17028
CAS No.: 405165-61-9
Molecular Formula: C₁₉H₂₂Cl₂FN₃O₃
Molecular Weight: 430.3
Target: Bacterial
Pathway: Anti-infection
Storage:
- Powder -20°C 3 years
- Powder 4°C 2 years
- In solvent -80°C 6 months
- In solvent -20°C 1 month

SOLVENT & SOLUBILITY
In Vitro
H₂O : < 0.1 mg/mL (insoluble)

BIOLOGICAL ACTIVITY
Description
Besifloxacin hydrochloride is a fourth-generation fluoroquinolone antibiotic. IC50 Value:
Antibacterial Besifloxacin has been found to inhibit production of pro-inflammatory cytokines in vitro. Besifloxacin is a novel 8-chloro-fluoroquinolone agent with potent, bactericidal activity against prevalent and drug-resistant pathogens. Besifloxacin is the most potent agent tested against gram-positive pathogens and anaerobes and is generally equivalent to comparator fluoroquinolones in activity against most gram-negative pathogens. Besifloxacin demonstrates potent, broad-spectrum activity, which is particularly notable against gram-positive and gram-negative isolates that are resistant to other fluoroquinolones and classes of antibacterial agents.

REFERENCES
[5]. Comstock TL, Paterno MR, Usner DW, Pichichero ME. Efficacy and safety of besifloxacin ophthalmic suspension 0.6% in children and adolescents with bacterial conjunctivitis: a post hoc, subgroup analysis of three randomized, double-masked, parallel-group,