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Product Information

Product ID B1973

CAS No. 405165-61-9

Chemical Name 7-[(3R) -3-aminoazepam- 1-yl]- 8-chloro- 1-cyclopropyl- 6-fluoro- 4-

oxo- 1,4- dihydroquinoline- 3-carboxylic acid hydrochloride

Synonym

Formula C₁₉H₂₂CIFN₃O₃ • HCI

Formula Wt. 430.31

Melting Point

Purity ≥98%

Solubility Sparingly soluble in water

(1 mg/mL), DMSO (<1

mg/mL)

 H_2N HCI

Bulk quanitites available upon request

Product ID	Size
B1973	25 mg
B1973	100 mg
B1973	250 mg

Store Temp -20°C Ship Temp Ambient

Description Besifloxacin is a fourth generation fluoroquinolone antibiotic that displays broad-spectrum antibacterial activity against aerobic

and anaerobic bacteria and is effective against a wide range of ocular pathogens that exhibit resistance to other fluoroquinolone antibiotics. Besifloxacin inhibits DNA topoisomerase IV and DNA gyrase, preventing DNA replication, transcription, and repair. This compound also inhibits production of IL-1Ra, IL-6, IL-1-B, MCP-1, and other pro-inflammatory

cytokines; it may also inhibit NF-kB signaling.

References Miller D, Chang JS, Flynn HW, et al. Comparative in vitro susceptibility of besifloxacin and seven comparators against ciprofloxacin- and methicillin-susceptible/nonsusceptible staphylococci. J Ocul Pharmacol Ther. 2013 Apr;29(3):339-44. PMID: 23289847.

> Lan W, Petznick A, Heryati S, et al. Nuclear Factor-kB: central regulator in ocular surface inflammation and diseases. Ocul Surf. 2012 Jul;10(3):137-48. PMID: 22814642.

Cambau E, Matrat S, Pan XS, et al. Target specificity of the new fluoroquinolone besifloxacin in Streptococcus pneumoniae, Staphylococcus aureus and Escherichia coli. J Antimicrob Chemother. 2009 Mar;63(3):443-50. PMID: 19147516.

Zhang JZ, Ward KW. Besifloxacin, a novel fluoroquinolone antimicrobial agent, exhibits potent inhibition of pro-inflammatory cytokines in human THP-1 monocytes. J Antimicrob Chemother. 2008 Jan;61(1):111-6. PMID: 17965029.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.