Ozenoxacin

Cat. No.: HY-14957

CAS No.: 245765-41-7

Molecular Formula: $C_{21}H_{21}N_3O_3$

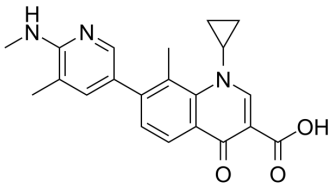
Molecular Weight: 363.41

Target: Bacterial

Pathway: Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 4.17 mg/mL (11.47 mM; ultrasonic and warming and heat to 70°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7517 mL	13.7586 mL	27.5171 mL
	5 mM	0.5503 mL	2.7517 mL	5.5034 mL
	10 mM	0.2752 mL	1.3759 mL	2.7517 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Ozenoxacin is a nonfluorinated quinolone antibacterial, which shows potent activities against the main microorganisms isolated from skin and soft tissue infections.

IC_{50} & Target

Bacterial[1]

In Vitro

Ozenoxacin (OZN) shows potent antibacterial activities against clinical isolates of Gram-positive microorganisms, with MICs ranging from 0.008 to 4 mg/L. Ozenoxacin shows good activities against strains of MRSA, MSSA, MSSE, and MRSE with 2, 3, or 4 mutations in the gyrA and grlA (parC) genes[1]. Ozenoxacin inhibits MSSA strains and S. agalactiae strains, with the rates of resistance of $>10^{-10}$ and 5.3×10^{-10}, respectively. The maximum MIC value for mutant strains is 8 mg/L for ozenoxacin[2].

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

REFERENCES

[1]. López Y, et al. In vitro activity of Ozenoxacin against quinolone-susceptible and quinolone-resistant gram-positive bacteria. Antimicrob Agents Chemother. 2013

Dec;57(12):6389-92.

[2]. López Y, et al. In vitro selection of mutants resistant to ozenoxacin compared with levofloxacin and ciprofloxacin in Gram-positive cocci. J Antimicrob Chemother. 2015 Jan;70(1):57-61

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