

Product Data Sheet

Product Name: Ozenoxacin (T-3912)

Cat. No.: GC33945

Chemical Properties

Cas. No. 245765-41-7

SMILES O=C(C1=CN(C2CC2)C3=C(C=CC(C4=CC(C)=C(NC)N=C4)=C3C)C1=O)O

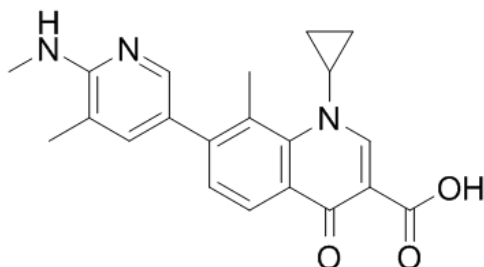
Formula $C_{21}H_{21}N_3O_3$ M.Wt 363.41

Solubility DMSO : 6 mg/mL (16.51 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

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

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

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

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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].

[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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