
Product Data Sheet

Product Name: Pazufloxacin (T3761)

Cat. No.: GC33984

Chemical Properties

Cas. No. 127045-41-4

SMILES O=C(C(C1=O)=CN2[C@@H](C)COC3=C(C4(N)CC4)C(F)=CC1=C23)OFormula $C_{16}H_{15}FN_2O_4$ M.Wt 318.3

Solubility Soluble in DMSO 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**

Pazufloxacin (T-3761) is a fluoroquinolone antibiotic. Target: Antibacterial Pazufloxacin (T-3761), a new quinolone derivative, showed broad and potent antibacterial activity. T-3761 showed good efficacy in mice against systemic, pulmonary, and urinary tract infections with gram-positive and gram-negative bacteria, including quinolone-resistant *Serratia marcescens* and *Pseudomonas aeruginosa*. The in vivo activity of T-3761 was comparable to or greater than those of ofloxacin, ciprofloxacin, norfloxacin, and tosufloxacin against most infection models in mice. The activities of T-3761 were lower than those of tosufloxacin against gram-positive bacterial systemic and pulmonary infections in mice but not against infections with methicillin-resistant *Staphylococcus aureus* [1]. T-3761 had a broad spectrum of activity and had potent activity against gram-positive and -negative bacteria. The MICs of T-3761 against 90% of the methicillin-susceptible *Staphylococcus aureus*, methicillin-susceptible and -resistant *Staphylococcus epidermidis*, and *Clostridium* spp. tested were 0.39 to 6.25 micrograms/ml. The MBCs of T-3761 were either equal to or twofold greater than the MICs. The 50% inhibitory concentrations of T-3761 for DNA gyrases isolated from *E. coli* and *P. aeruginosa* were 0.88 and 1.9 micrograms/ml, respectively [2].

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

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[1]. Fukuoka, Y., et al., In vitro and in vivo antibacterial activities of T-3761, a new quinolone derivative. *Antimicrob Agents Chemother*, 1993. 37(3): p. 384-92. [2]. Muratani, T., M. Inoue, and S. Mitsuhashi, In vitro activity of T-3761, a new fluoroquinolone. *Antimicrob Agents Chemother*, 1992. 36(10): p. 2293-303.

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