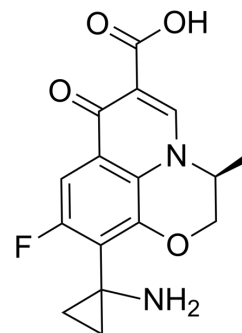


Pazufloxacin

Cat. No.:	HY-B0724B
CAS No.:	127045-41-4
Molecular Formula:	C ₁₆ H ₁₅ FN ₂ O ₄
Molecular Weight:	318.3
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	<p>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 <i>Serratia marcescens</i> and <i>Pseudomonas aeruginosa</i>. 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 <i>Staphylococcus aureus</i> [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 <i>Staphylococcus aureus</i>, methicillin-susceptible and -resistant <i>Staphylococcus epidermidis</i>, and <i>Clostridium</i> 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 <i>E. coli</i> and <i>P. aeruginosa</i> were 0.88 and 1.9 micrograms/ml, respectively [2].</p>
IC₅₀ & Target	Quinolone

REFERENCES

- [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.

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

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