Pazufloxacin

**Cat. No.:** HY-B0724B  
**CAS No.:** 127045-41-4  
**Molecular Formula:** C₁₆H₁₅FN₂O₄  
**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**  
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 gyrase isolated from E. coli and P. aeruginosa were 0.88 and 1.9 micrograms/ml, respectively [2].

| IC₅₀ & Target | Quinolone |

### REFERENCES


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

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