**Pazufloxacin**

**Cat. No.**: HY-B0724B  
**CAS No.**: 127045-41-4  
**Molecular Formula**: C₁₆H₁₅FN₂O₄  
**Molecular Weight**: 318.3  
**Target**: Bacterial  
**Pathway**: Anti-infection  
**Storage**: Please store the product under the recommended conditions in the COA.

### Solvent & Solubility

**In Vitro**  
10 mM in DMSO

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass (1 mg)</th>
<th>Mass (5 mg)</th>
<th>Mass (10 mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>3.1417 mL</td>
<td>15.7085 mL</td>
<td>31.4169 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.6283 mL</td>
<td>3.1417 mL</td>
<td>6.2834 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3142 mL</td>
<td>1.5708 mL</td>
<td>3.1417 mL</td>
</tr>
</tbody>
</table>

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

### 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].

### REFERENCES

- [1]  
- [2]  

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