AFN-1252

Cat. No.: HY-16911
CAS No.: 620175-39-5
Molecular Formula: C₂₂H₂₁N₃O₃
Molecular Weight: 375.42
Target: Bacterial; Antibiotic
Pathway: Anti-infection
Storage:
- Powder: -20°C, 3 years; 4°C, 2 years; In solvent: -80°C, 6 months; -20°C, 1 month

SOLVENT & SOLUBILITY

In Vitro
DMSO: 5.8 mg/mL (15.45 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.6637 mL</td>
<td>13.3184 mL</td>
<td>26.6368 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5327 mL</td>
<td>2.6637 mL</td>
<td>5.3274 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2664 mL</td>
<td>1.3318 mL</td>
<td>2.6637 mL</td>
<td></td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
AFN-1252 (Debio 1452) is a potent inhibitor of enoyl-acyl carrier protein reductase (FabI), inhibited all clinical isolates of Staphylococcus aureus and Staphylococcus epidermidis at concentrations of ≤0.12 μg/ml. IC50 value: Target: Antibiotic agent AFN-1252 was inactive (MIC90, >4 μg/ml) against clinical isolates of Streptococcus pneumoniae, beta-hemolytic streptococci, Enterococcus spp., Enterobacteriaceae, nonfermentative gram-negative bacilli, and Moraxella catarrhalis. These data support the continued development of AFN-1252 for the treatment of patients with resistant staphylococcal infections.

CUSTOMER VALIDATION

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REFERENCES


