Sutezolid

Cat. No.: HY-10392
CAS No.: 168828-58-8
Molecular Formula: C₁₆H₂₀FN₃O₃S
Molecular Weight: 353.41
Target: Bacterial
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: 50 mg/mL (141.48 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<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>2.8296 mL</td>
<td>14.1479 mL</td>
<td>28.2957 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5659 mL</td>
<td>2.8296 mL</td>
<td>5.6591 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2830 mL</td>
<td>1.4148 mL</td>
<td>2.8296 mL</td>
</tr>
</tbody>
</table>

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Sutezolid (PNU-100480) is an oxazolidinone antimicrobial being developed for the treatment of tuberculosis. Target: Antibacterial
Sutezolid is a much-awaited drug candidate for treatment of Mycobacterium tuberculosis. [1] Sutezolid is an oxazolidinone antibiotic currently in development as a treatment for extensively drug-resistant tuberculosis.
Sutezolid is a linezolid analog with superior bactericidal activity against Mycobacterium tuberculosis in the hollow fiber, whole blood and mouse models. Like linezolid, it is unaffected by mutations conferring resistance to standard TB drugs. This study of sutezolid is its first in tuberculosis patients. [2]
REFERENCES
