Retapamulin

Cat. No.: HY-17010
CAS No.: 224452-66-8
Molecular Formula: C₃₀H₄₇NO₄S
Molecular Weight: 517.76
Target: Bacterial; Antibiotic
Pathway: Anti-infection
Storage: 4°C, protect from light
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro

DMSO: 110 mg/mL (212.45 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>1.9314 mL</td>
<td>9.6570 mL</td>
<td>19.3140 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3863 mL</td>
<td>1.9314 mL</td>
<td>3.8628 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1931 mL</td>
<td>0.9657 mL</td>
<td>1.9314 mL</td>
<td></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: ≥ 2.75 mg/mL (5.31 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.75 mg/mL (5.31 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.75 mg/mL (5.31 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Retapamulin(SB-275833) is a topical antibiotic, which binds to both E. coli and S. aureus ribosomes with similar potencies with Kd of 3 nM. IC50 Value: 3 nM(Kd, E.coli) Target: Antibacterial
Retapamulin is a topical antibiotic developed by GlaxoSmithKline. Retapamulin(SB-275833) is the first drug in the new class of pleuromutilin antibiotics to be approved for human use. Retapamulin(SB-275833) is marketed as an ointment under the brand names Altabax and Altargo. Retapamulin(SB-275833) is useful for Antibiotics.

CUSTOMER VALIDATION

Product Data Sheet

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REFERENCES


