Solithromycin

Cat. No.: HY-17593
CAS No.: 760981-83-7
Molecular Formula: C₄₃H₆₅FN₆O₁₀
Molecular Weight: 845.01
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: ≥ 32 mg/mL (37.87 mM)
"≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent Mass Concentration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td>1.1834 mL</td>
<td>5.9171 mL</td>
<td>11.8342 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.2367 mL</td>
<td>1.1834 mL</td>
<td>2.3668 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1183 mL</td>
<td>0.5917 mL</td>
<td>1.1834 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
Solithromycin is a novel fluoroketolide with improved antimicrobial effectiveness. Target: Antibacterial Solithromycin binds to the large 50S subunit of the ribosome and inhibits protein biosynthesis. The mean 50% inhibitory concentrations (IC50s) for Solithromycin inhibition of cell viability, protein synthesis, and growth rate were 7.5, 40, and 125 ng/ml for Streptococcus pneumoniae, Staphylococcus aureus, and Haemophilus influenzae, respectively.

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