Salicyl-AMS

Cat. No.: HY-108941
CAS No.: 863238-55-5
Molecular Formula: C₁₇H₁₈N₆O₈S
Molecular Weight: 466.43
Target: Bacterial
Pathway: Anti-infection
Storage: -20°C, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)

SOLVENT & SOLUBILITY

**In Vitro**

DMSO : ≥ 90.5 mg/mL (194.03 mM)

* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent</td>
<td>1 mM</td>
<td>2.1439 mL</td>
<td>10.7197 mL</td>
<td>21.4394 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4288 mL</td>
<td>2.1439 mL</td>
<td>4.2879 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2144 mL</td>
<td>1.0720 mL</td>
<td>2.1439 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: ≥ 1.67 mg/mL (3.58 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.67 mg/mL (3.58 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.67 mg/mL (3.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Salicyl-AMS is a mycobactin biosynthesis inhibitor which can also inhibit M. tuberculosis growth in vitro under iron-limited conditions.

IC₅₀ & Target

Bacterial[1]

REFERENCES

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