AWZ1066S

Cat. No.: HY-114415
CAS No.: 2239272-16-1
Molecular Formula: C₁₉H₁₉F₃N₆O
Molecular Weight: 404.39
Target: Parasite
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: 125 mg/mL (309.11 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>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>2.4729 mL</td>
<td>12.3643 mL</td>
<td>24.7286 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4946 mL</td>
<td>2.4729 mL</td>
<td>4.9457 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2473 mL</td>
<td>1.2364 mL</td>
<td>2.4729 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: ≥ 2.08 mg/mL (5.14 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.14 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.14 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AWZ1066S is a highly specific anti-Wolbachia drug candidate for a short-course treatment of filariasis, with an EC₅₀ of 2.5 nM in cell assay[1].

REFERENCES