Avermectin B1

Cat. No.: HY-15311
CAS No.: 71751-41-2
Molecular Formula: C₉₅H₁₄₂O₂₈
Molecular Weight: 1732.13
Target: Parasite; Autophagy; Antibiotic
Pathway: Anti-infection; Autophagy
Storage: 4°C, sealed storage, away from moisture and light
* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro
DMSO : ≥ 247 mg/mL (142.60 mM)
H₂O : < 0.1 mg/mL (insoluble)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>0.577 mL</td>
<td>2.886 mL</td>
<td>5.773 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.1155 mL</td>
<td>0.577 mL</td>
<td>1.1546 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.0577 mL</td>
<td>0.2887 mL</td>
<td>0.5773 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 (1.44 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (1.44 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (1.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Avermectin B1 (Abamectin) is a widely used insecticide and anthelmintic. IC50 Value: N/ATarget: Antiparasitic
Avermectin B1 is a mixture of avermectins containing more than 80% avermectin B1a and less than 20% avermectin B1b. These two components, B1a and B1b have very similar biological and toxicological properties. The avermectins are insecticidal and antihelmintic compounds derived from various laboratory broths fermented by the soil bacterium Streptomyces avermitilis. Avermectin B1 is a natural fermentation product of this bacterium.
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REFERENCES


