Avermectin B1

Cat. No.: HY-15311
CAS No.: 71751-41-2
Molecular Formula: C₉₅H₁₄₂O₂₈
Molecular Weight: 1732.13
Target: Parasite; Autophagy
Pathway: Anti-infection; Autophagy
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: ≥ 247 mg/mL (142.60 mM)
"≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>0.5773 mL</td>
<td>2.8866 mL</td>
<td>5.7732 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.1155 mL</td>
<td>0.5773 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>

Preparing Stock Solutions

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

BIOLOGICAL ACTIVITY

Description
Avermectin B1 (Abamectin) is a widely used insecticide and anthelmintic. IC50 Value: N/ATarget: AntiparasiticAvermectin 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 antihelminthic compounds derived from various laboratory broths fermented by the soil bacterium Streptomyces avermitilis. Avermectin B1 is a natural fermentation product of this bacterium.

REFERENCES
[2]. De Chaneet GC, Casey R, Dixon FF, Besier RB, Mitchell RK. Effect of avermectin B1 and benzimidazole anthelmintics on worm egg output of treated

