Pyrantel tartrate

Cat. No.: HY-12641
CAS No.: 33401-94-4
Molecular Formula: C₁₅H₂₀N₂O₆S
Molecular Weight: 356.39
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: ≥ 34 mg/mL (95.40 mM)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td></td>
<td>2.8059 mL</td>
<td>14.0296 mL</td>
<td>28.0591 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td></td>
<td>0.5612 mL</td>
<td>2.8059 mL</td>
<td>5.6118 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td></td>
<td>0.2806 mL</td>
<td>1.4030 mL</td>
<td>2.8059 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 (7.01 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (7.01 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.01 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Pyrantel tartrate is an antinematodal thiophene; nicotinic receptor agonist and can elicit spastic muscle paralysis in parasitic worms due to prolonged activation of the excitatory nicotinic acetylcholine (nACh) receptors on body wall muscle.
REFERENCES
