Valnemulin hydrochloride

Cat. No.: HY-B0027  
CAS No.: 133868-46-9  
Molecular Formula: \( C_{31}H_{53}ClN_2O_5S \)  
Molecular Weight: 601.28  
Target: Bacterial; Antibiotic  
Pathway: Anti-infection  
Storage: 4°C, sealed storage, away from moisture  
* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### SOLVENT & SOLUBILITY

#### In Vitro

DMSO: ≥ 100 mg/mL (166.31 mM)  
H\(_2\)O: 100 mg/mL (166.31 mM; Need ultrasonic)  
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent 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>1.6631 mL</td>
<td>8.3156 mL</td>
<td>16.6312 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.3326 mL</td>
<td>1.6631 mL</td>
<td>3.3262 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.1663 mL</td>
<td>0.8316 mL</td>
<td>1.6631 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: PBS  
   Solubility: 100 mg/mL (166.31 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
   Solubility: ≥ 2.5 mg/mL (4.16 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.5 mg/mL (4.16 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.5 mg/mL (4.16 mM); Clear solution

### BIOLOGICAL ACTIVITY

**Description**  
Valnemulin hydrochloride is a pleuromutilin antibiotic which inhibits protein synthesis in bacteria by binding the peptidyl transferase enzyme in the 50s ribosomal subunit.
CUSTOMER VALIDATION


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REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.
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