Valnemulin Hydrochloride

Cat. No.: HY-B0027
CAS No.: 133868-46-9
Molecular Formula: C₃₁H₅₃ClN₂O₅S
Molecular Weight: 601.28
Target: Bacterial
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 : ≥ 26 mg/mL (43.24 mM)
* “≥” means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 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.

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.

REFERENCES

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

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