Epetraborole hydrochloride

Cat. No.: HY-12479A
CAS No.: 1234563-16-6
Molecular Formula: C₁₁H₁₇BClNO₄
Molecular Weight: 273.52
Target: Others; Bacterial
Pathway: Others; 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
H₂O : ≥ 28 mg/mL (102.37 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>3.6560 mL</td>
<td>18.2802 mL</td>
<td>36.5604 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.7312 mL</td>
<td>3.6560 mL</td>
<td>7.3121 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.3656 mL</td>
<td>1.8280 mL</td>
<td>3.6560 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
Epetraborole hydrochloride is a novel leucyl-tRNA synthetase (LeuRS) inhibitor, which inhibits protein synthesis by binding "to the terminal adenosine ribose (A76) of leucyl-tRNA synthetase". It is intended for the treatment of infections caused by Gram-negative bacteria. Epetraborole hydrochloride is a bacteriostatic compound that can against a wide range of anaerobic and Gram-negative bacteria, including multidrug-resistant pathogens, such as extended-spectrum-β-lactamase-, metallo-β-lactamase-, and carbapenemase-producing organism.

REFERENCES

