Bacitracin

Cat. No.: HY-107193
CAS No.: 1405-87-4
Molecular Formula: \(C_{66}H_{103}N_{17}O_{16}S\)
Molecular Weight: 1422.69
Target: Bacterial; Antibiotic
Pathway: Anti-infection
Storage: 4°C, protect from light
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

**SOLVENT & SOLUBILITY**

<table>
<thead>
<tr>
<th>Solvent &amp; Solubility</th>
<th>(H_2O: 50 \text{ mg/mL (35.14 mM; Need ultrasonic)})</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparing Stock Solutions</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Solvent Mass 1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>0.7029 mL</td>
<td>3.5145 mL</td>
<td>7.0289 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.1406 mL</td>
<td>0.7029 mL</td>
<td>1.4058 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.0703 mL</td>
<td>0.3514 mL</td>
<td>0.7029 mL</td>
</tr>
</tbody>
</table>

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

**BIOLOGICAL ACTIVITY**

**Description**

Bacitracin is a polypeptide antibiotic used for staphylococcal infections. Bacitracin functions as an inhibitor of cell wall biosynthesis through its binding to the undecaprenyl pyrophosphate. The combination of bacitracin with other antibiotics has been efficient to be used as a topical agent[1].

**REFERENCES**


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