Sulfamonomethoxine

Cat. No.: HY-B0946
CAS No.: 1220-83-3
Molecular Formula: C_{11}H_{12}N_{4}O_{3}S
Molecular Weight: 280.3
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

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>≥ 42 mg/mL (149.84 mM)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*“≥” means soluble, but saturation unknown.*

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent</th>
<th>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>3.5676 mL</td>
<td>17.8380 mL</td>
<td>35.6761 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.7135 mL</td>
<td>3.5676 mL</td>
<td>7.1352 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.3568 mL</td>
<td>1.7838 mL</td>
<td>3.5676 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
Sulfamonomethoxine is a long acting sulfonamide antibacterial agent, used in blood kinetic studies, and blocks the synthesis of folic acid by inhibiting synthetase of dihydropteroate.

REFERENCES


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