Brodimoprim

Cat. No.: HY-121341
CAS No.: 56518-41-3
Molecular Formula: C₁₃H₁₅BrN₄O₂
Molecular Weight: 339.19
Target: Bacterial
Pathway: Anti-infection
Storage: -20°C, protect from light, stored under argon
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light, stored under argon)

SOLVENT & SOLUBILITY

In Vitro
DMSO: 33.33 mg/mL (98.26 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td></td>
<td>2.9482 mL</td>
<td>14.7410 mL</td>
<td>29.4820 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.5896 mL</td>
<td>2.9482 mL</td>
<td>5.8964 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.2948 mL</td>
<td>1.4741 mL</td>
<td>2.9482 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: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (7.37 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.37 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Brodimoprim (Ro 10-5970), a trimethoprim analogue, is an orally active dihydrofolate reductase inhibitor. Brodimoprim is highly active against a broad spectrum of gram-negative and gram-positive bacteria[^1].

REFERENCES

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

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