Sulfaphenazole

Cat. No.: HY-B1218
CAS No.: 526-08-9
Molecular Formula: C₁₅H₁₄N₄O₂S
Molecular Weight: 314.36
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 : ≥ 100 mg/mL (318.11 mM)
* “≥” means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>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>3.1811 mL</td>
<td>15.9053 mL</td>
<td>31.8107 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.6362 mL</td>
<td>3.1811 mL</td>
<td>6.3621 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.3181 mL</td>
<td>1.5905 mL</td>
<td>3.1811 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: ≥ 2.08 mg/mL (6.62 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.62 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.62 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Sulfaphenazole is a specific inhibitor of CYP2C9 which blocks atherogenic and pro-inflammatory effects of linoleic acid (increase in oxidative stress and activation of AP-1) mediated by CYP2C9. Acts as an antibacterial and antimicrobial.
CUSTOMER VALIDATION


See more customer validations on www.MedChemExpress.com

REFERENCES

