Penicillin V Potassium

Cat. No.: HY-B0975
CAS No.: 132-98-9
Molecular Formula: C₁₆H₁₇KN₂O₅S
Molecular Weight: 388.48
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 : 12 mg/mL (30.89 mM; Need ultrasonic)
H₂O : 6 mg/mL (15.44 mM; Need ultrasonic and warming)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>DMSO</th>
<th>H₂O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration</td>
<td>1 mM</td>
<td>5 mM</td>
</tr>
<tr>
<td>Mass</td>
<td>2.5741 mL</td>
<td>12.8707 mL</td>
</tr>
<tr>
<td>1 mg</td>
<td>2.5741 mL</td>
<td>12.8707 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5148 mL</td>
<td>2.5741 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2574 mL</td>
<td>1.2871 mL</td>
</tr>
</tbody>
</table>

Preparing Stock Solutions

In Vivo
1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1.2 mg/mL (3.09 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.2 mg/mL (3.09 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.2 mg/mL (3.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Penicillin V Potassium is an antibiotic useful for the treatment of a number of bacterial infections, is a penicillin that is orally active, acts by inhibiting the biosynthesis of cell-wall peptidoglycan.
Caution: Product has not been fully validated for medical applications. For research use only.

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