Chlorobutanol

Cat. No.: HY-B1263
CAS No.: 57-15-8
Molecular Formula: C₄H₇Cl₃O
Molecular Weight: 177.46
Target: Bacterial; Fungal
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 (563.51 mM)
* “≥” means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td></td>
<td>5.6351 mL</td>
<td>28.1754 mL</td>
<td>56.3507 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td></td>
<td>1.1270 mL</td>
<td>5.6351 mL</td>
<td>11.2701 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td></td>
<td>0.5635 mL</td>
<td>2.8175 mL</td>
<td>5.6351 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 (14.09 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (14.09 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (14.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Chlorobutanol is a pharmaceutical preservative with sedative-hypnotic actions. Chlorobutanol is active against a wide variety of Gram-positive and Gram-negative bacteria, and several mold spores and fungi. Chlorobutanol is widely used in food and cosmetic industry.[1][2].

REFERENCES

[1] [2]


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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA