**Benzyl benzoate**

Cat. No.: HY-B0935  
CAS No.: 120-51-4  
Molecular Formula: C₁₄H₁₂O₂  
Molecular Weight: 212.24  
Target: Parasite  
Pathway: Anti-infection  
Storage: 4°C, protect from light  
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

**SOLVENT & SOLUBILITY**

**In Vitro**

DMSO: ≥ 50 mg/mL (235.58 mM)  
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent 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>4.7116 mL</td>
<td>23.5582 mL</td>
<td>47.1165 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.9423 mL</td>
<td>4.7116 mL</td>
<td>9.4233 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.4712 mL</td>
<td>2.3558 mL</td>
<td>4.7116 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 (11.78 mM); Clear solution  
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.5 mg/mL (11.78 mM); Clear solution  
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.5 mg/mL (11.78 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**

Benzyl benzoate (Benzoic acid benzyl ester) is a fragrance ingredient in cosmetic products. Benzyl benzoate can be used for the research of Scabies and Demodex-associated inflammatory skin conditions\(^1\)[2][3].

**REFERENCES**


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

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