Fenticonazole Nitrate

Cat. No.: HY-B0359  
CAS No.: 73151-29-8  
Molecular Formula: C₂₄H₂₁Cl₂N₃O₄S  
Molecular Weight: 518.41  
Target: 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 (192.90 mM)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparation 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>1.9290 mL</td>
<td>9.6449 mL</td>
<td>19.2898 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.3858 mL</td>
<td>1.9290 mL</td>
<td>3.8580 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.1929 mL</td>
<td>0.9645 mL</td>
<td>1.9290 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 (4.82 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.82 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.82 mM); Clear solution

BIOLOGICAL ACTIVITY

Description  
Fenticonazole Nitrate is an azole antifungal agent. Target: Antifungal  
Fenticonazole Nitrate is an azole antifungal drug, used locally as the nitrate in the treatment of vulvovaginal candidiasis. It is active against a range of organisms including dermatophyte pathogens, Malassezia furfur, and Candida albicans. Application of fenticonazole nitrate 1 g intravaginal ovules on 2 alternate days is a suitable first-line treatment of vulvovaginitis with acceptable broad-spectrum efficacy against the most commonly involved pathogens and with a low rate of early relapse, reserving
antibiotics for patients with treatment failure or relapse of infection [1].

REFERENCES