## Panidazole

**Cat. No.:** HY-101715  
**CAS No.:** 13752-33-5  
**Molecular Formula:** C₁₁H₁₂N₄O₂  
**Molecular Weight:** 232.24  
**Target:** Parasite  
**Pathway:** Anti-infection  
**Storage:**  
- Powder: -20°C for 3 years, 4°C for 2 years, In solvent: -80°C for 6 months, -20°C for 1 month  

### SOLVENT & SOLUBILITY

#### In Vitro

DMSO: ≥ 125 mg/mL (538.24 mM)  
* "≥" means soluble, but saturation unknown.

#### Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td></td>
<td>4.3059 mL</td>
<td>21.5295 mL</td>
<td>43.0589 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.8612 mL</td>
<td>4.3059 mL</td>
<td>8.6118 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.4306 mL</td>
<td>2.1529 mL</td>
<td>4.3059 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 (8.96 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.08 mg/mL (8.96 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.08 mg/mL (8.96 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Panidazole is an amoebicide.

#### In Vitro

Panidazole in concentrations of 0.02-1 mM increases the mutation frequency of Klebsiella pneumoniae, Escherichia coli K12 and Citrobacter freundii to streptomycin resistance, including streptomycin dependence, in Luria and Delbrück's fluctuation test[^1].  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo

In 100 cases of vaginal trichomoniasis treated with panidazole at the dose of 1.0 g per day for seven days in half of the patients and for 10 days in the other half, we obtained 50% and 60% cure rates\(^3\).

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES
