Isoconazole nitrate

**Cat. No.**: HY-B1444

**CAS No.**: 24168-96-5

**Molecular Formula**: C₁₈H₁₅Cl₄N₃O₄

**Molecular Weight**: 479.14

**Target**: Bacterial; Fungal

**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: ≥ 40 mg/mL (83.48 mM)

*“≥” means soluble, but saturation unknown.*

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass (mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mg</td>
<td>5 mg</td>
</tr>
<tr>
<td>1 mM</td>
<td>2.0871 mL</td>
<td>10.4354 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4174 mL</td>
<td>2.0871 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2087 mL</td>
<td>1.0435 mL</td>
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</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

**BIOLOGICAL ACTIVITY**

**Description**

Isoconazole nitrate is a broad-spectrum antimicrobial agent with a highly effective antimycotic and gram-positive antibacterial activity, a rapid rate of absorption and low systemic exposure potential. Isoconazole nitrate is effective against pathogens involved in dermatomycoses, with minimum inhibitory concentrations well below the concentration of ISN in skin and hair follicles.

**REFERENCES**

