**Clioquinol**

**Cat. No.**: HY-14603  
**CAS No.**: 130-26-7  
**Molecular Formula**: C₉H₅ClINO  
**Molecular Weight**: 305.5  
**Target**: Fungal; Autophagy; Mitophagy; Antibiotic  
**Pathway**: Anti-infection; Autophagy  
**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**: ≥ 53.33 mg/mL (174.57 mM)  
- **H₂O**: < 0.1 mg/mL (insoluble)  
  *”≥” means soluble, but saturation unknown.*

<table>
<thead>
<tr>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>3.2733 mL</td>
<td>16.3666 mL</td>
<td>32.7332 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.6547 mL</td>
<td>3.2733 mL</td>
<td>6.5466 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3273 mL</td>
<td>1.6367 mL</td>
<td>3.2733 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 (6.81 mM); Suspended solution; Need ultrasonic and warming

2. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.08 mg/mL (6.81 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**  
Clioquinol (Iodochlorhydroxyquin) is an antifungal drug and antiprotozoal compound that shows effectivity for Alzheimer’s disease treatment and induce cancer cell death.

**REFERENCES**


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