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>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>1 mM</td>
<td></td>
<td>3.2733 mL</td>
<td>16.3666 mL</td>
<td>32.7323 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.6547 mL</td>
<td>3.2733 mL</td>
<td>6.5466 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></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

