Cinepazide Maleate

Cat. No.: HY-66010
CAS No.: 26328-04-1
Molecular Formula: $\text{C}_{26}\text{H}_{35}\text{N}_3\text{O}_9$
Molecular Weight: 533.57
Target: Calcium Channel
Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling
Storage: 4°C, sealed storage, away from moisture
* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

**SOLVENT & SOLUBILITY**

In Vitro

DMSO : 100 mg/mL (187.42 mM; Need ultrasonic)
H$_2$O : 50 mg/mL (93.71 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>1.8742 mL</td>
<td>9.3708 mL</td>
<td>18.7417 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.3748 mL</td>
<td>1.8742 mL</td>
<td>3.7483 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.1874 mL</td>
<td>0.9371 mL</td>
<td>1.8742 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: PBS
   Solubility: 100 mg/mL (187.42 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.75 mg/mL (5.15 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.75 mg/mL (5.15 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.75 mg/mL (5.15 mM); Clear solution

**BIOLOGICAL ACTIVITY**

Description
Cinepazide Maleate (MD-67350) is a piperazine derivative and acts as a weak calcium channel blocker. Cinepazide Maleate is a potent vasodilator and can be used for the research of cerebrovascular diseases, including ischemic stroke, brain infarct et al [1].

In Vivo
Cinepazide Maleate (intravenous injection; 30 mg/kg) potentiates the vertebral vasodilator response of dogs to intravertebral adenosine and cyclic AMP, while cinnarizine reduces their vasodilator effects [1].
Cinepazide Maleate (intravertebral injection; 1-10 mg/kg) increases vertebral blood flow in a dose-related manner in dogs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES
