Cinepazide Maleate

Cat. No.: HY-66010
CAS No.: 26328-04-1
Molecular Formula: C₂₆H₃₅N₃O₉
Molecular Weight: 533.57
Target: Others
Pathway: Others
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 : 100 mg/mL (187.42 mM; Need ultrasonic)
H₂O : 50 mg/mL (93.71 mM; Need ultrasonic)

Preparation of Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Solvent Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>1.8742 mL</td>
<td>9.3708 mL</td>
<td>18.7417 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3748 mL</td>
<td>1.8742 mL</td>
<td>3.7483 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1874 mL</td>
<td>0.9371 mL</td>
<td>1.8742 mL</td>
<td></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: ≥ 2.75 mg/mL (5.15 mM); Clear solution

2. 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

3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.75 mg/mL (5.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Cinepazide Maleate is a vasodilator.
Target: Others
Cinepazide maleate is a maleate salt form of cinepazide which is a vasodilator. Cinepazide (30 mg/kg, i.v.) potentiated the vertebral vasodilator response of dogs to intravertebral adenosine and cyclic AMP. Intravertebral cinepazide (1-10 mg) increased vertebral blood flow in a dose-related manner and the effect was partially inhibited by intravenous pretreatment with aminophylline but not by pretreatment with autonomic antagonists. Cinepazide resembled cinnarizine and papaverine in that the drug...
antagonized rabbit aortic contraction induced by KCl, norepinephrine or CaCl₂ [1]. Cinepazide in concentrations ranging from 10⁻⁶ to 10⁻⁵M augmented the relaxing responses to ATP, adenosine and cAMP. However, this agent did not affect the relaxations induced by isoproterenol and papaverine and the contractions induced by 5-HT, prostaglandin F₂α and ATP. cinepazide selectively potentiates the relaxing response mediated through purinergic P₁ receptors [2].

REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.
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