Fipexide

Cat. No.: HY-B1124
CAS No.: 34161-24-5
Molecular Formula: C₂₀H₂₁ClN₂O₄
Molecular Weight: 388.84
Target: Adenylate Cyclase; Dopamine Transporter
Pathway: GPCR/G Protein; Neuronal Signaling
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 : 50 mg/mL (128.59 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<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>2.5718 mL</td>
<td>12.8588 mL</td>
<td>25.7175 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5144 mL</td>
<td>2.5718 mL</td>
<td>5.1435 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2572 mL</td>
<td>1.2859 mL</td>
<td>2.5718 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 (5.35 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (5.35 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Fipexide, a parachloro-phenossiacetic acid derivative, is a nootropic drug. Fipexide reduces striatal adenylate cyclase activity. Fipexide has positive effect on cognitive performance by dopaminergic neurotransmission. Fipexide is used for senile dementia research[1].

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**REFERENCES**


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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