(Z)-Thiothixene

Cat. No.: HY-108324
CAS No.: 3313-26-6
Molecular Formula: C₂₃H₂₉N₃O₂S₂
Molecular Weight: 443.63
Target: 5-HT Receptor
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: 10 mg/mL (22.54 mM; ultrasonic and warming and heat to 60°C)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td></td>
<td></td>
<td>2.2541 mL</td>
<td>11.2707 mL</td>
<td>22.5413 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td></td>
<td>0.4508 mL</td>
<td>2.2541 mL</td>
<td>4.5083 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td></td>
<td>0.2254 mL</td>
<td>1.1271 mL</td>
<td>2.2541 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: ≥ 1 mg/mL (2.25 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1 mg/mL (2.25 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1 mg/mL (2.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
(Z)-Thiothixene is an antagonist of serotonergic receptor extracted from patent US 20150141345 A1.

IC₅₀ & Target
serotonin

In Vitro
(Z)-Thiothixene is capable of promoting cell survival and/or plasticity, and/or inhibiting cell death, especially when a toxic agent is exposed to the cells, including neuronal cells[1]. (Z)-Thiothixene is a Z (cis) isomer of thiothixene, as well as synthetic precursor and degradant[2].
REFERENCES
