Dexpramipexole

Cat. No.: HY-17355B
CAS No.: 104632-28-2
Molecular Formula: C₁₀H₁₇N₃S
Molecular Weight: 211.33
Target: Dopamine Receptor
Pathway: GPCR/G Protein; Neuronal Signaling
Storage: Please store the product under the recommended conditions in the COA.

Solvent & Solubility

<table>
<thead>
<tr>
<th>Solvent &amp; Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mM in DMSO</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td>4.73 mL</td>
<td>23.66 mL</td>
<td>47.32 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.95 mL</td>
<td>4.73 mL</td>
<td>9.46 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.47 mL</td>
<td>2.36 mL</td>
<td>4.73 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Dexpramipexole (KNS-760704), also known as R-(+)-Pramipexole, is a neuroprotective agent and weak non-ergoline dopamine agonist. IC₅₀ Value: Target: Dopamine Receptor

Dexpramipexole has been found to have neuroprotective effects and is being investigated for treatment of amyotrophic lateral sclerosis (ALS). Dexpramipexole reduces mitochondrial reactive oxygen species (ROS) production, inhibits the activation of apoptotic pathways, and increases cell survival in response to a variety of neurotoxins and β-amyloid neurotoxicity. Compared to the S-(-) isomer, Dexpramipexole has much lower dopamine agonist activity.

REFERENCES


