Talipexole dihydrochloride

Cat. No.: HY-A0008
CAS No.: 36085-73-1
Molecular Formula: C₁₀H₁₇Cl₂N₃S
Molecular Weight: 282.23
Target: Adrenergic Receptor; Dopamine Receptor; 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

In Vitro
DMSO : 28 mg/mL (99.21 mM; Need ultrasonic and warming)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Mass Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td></td>
<td>3.5432 mL</td>
<td>17.7160 mL</td>
<td>35.4321 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.7086 mL</td>
<td>3.5432 mL</td>
<td>7.0864 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.3543 mL</td>
<td>1.7716 mL</td>
<td>3.5432 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
Talipexole dihydrochloride (B-HT 920 dihydrochloride) is a dopamine D2 receptor agonist, α2-adrenoceptor agonist and 5-HT3 receptor antagonist, which displays antiParkinsonian activity.

<table>
<thead>
<tr>
<th>IC₅₀ &amp; Target</th>
<th>α2 25 nM (IC₅₀)</th>
<th>D₂ Receptor</th>
<th>5-HT₃ Receptor</th>
</tr>
</thead>
</table>

In Vivo
Intravenous injection of 30 micrograms/kg of Talipexole dihydrochloride (B-HT 920) into cats lead initially to an increase in blood pressure and then to a long-lasting decrease in blood pressure and heart rate. Vagally mediated reflex bradycardia elicited by angiotensin injection in beta-adrenoceptor-blocked dogs was facilitated by intracisternal injection of 10 micrograms/kg Talipexole dihydrochloride (B-HT 920).

REFERENCES

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

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