CP-809101 hydrochloride

Cat. No.: HY-15543A  
CAS No.: 1215721-40-6  
Molecular Formula: C₁₅H₁₈Cl₂N₄O  
Molecular Weight: 341.24  
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**

<table>
<thead>
<tr>
<th>Solvent &amp; Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>H₂O 1 mM</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>2.9305 mL</td>
<td>14.6524 mL</td>
<td>29.3049 mL</td>
<td></td>
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<tr>
<td>H₂O 5 mM</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>0.5861 mL</td>
<td>2.9305 mL</td>
<td>5.8610 mL</td>
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<tr>
<td>H₂O 10 mM</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>0.2930 mL</td>
<td>1.4652 mL</td>
<td>2.9305 mL</td>
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</tr>
</tbody>
</table>

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

**BIOLOGICAL ACTIVITY**

Description: CP-809101 hydrochloride is a potent and selective 5-HT2C receptor agonist with pEC50 of 9.96/7.19/6.81 for human 5-HT2C/5-HT2B/5-HT2A receptors respectively. IC50 Value: 9.96(pEC50 for 5-HT2C); 7.19(pEC50 for 5-HT2B); 6.81(pEC50 for 5-HT2A) Target: 5-HT2C Receptor

CP-809101 is a potent, functionally selective 5-HT2C agonist that displays approximately 100% efficacy in vitro. The aim of the present studies was to assess the efficacy of a selective 5-HT2C agonist in animal models predictive of antipsychotic-like efficacy and side-effect liability. Similar to currently available antipsychotic drugs, CP-809101 dose-dependently inhibited conditioned avoidance responding (CAR, ED50 = 4.8 mg/kg, sc). CP-809101 antagonized both PCP- and d-amphetamine-induced hyperactivity with ED50 values of 2.4 and 2.9 mg/kg (sc), respectively and also reversed an apomorphine induced-deficit in prepulse inhibition. At doses up to 56 mg/kg, CP-809101 did not produce catalepsy. Thus, the present results demonstrate that the 5-HT2C agonist, CP-809101, has a pharmacological profile similar to that of the atypical antipsychotics with low extrapyramidal symptom liability. CP-809101 was inactive in two animal models of antidepressant-like activity, the forced swim test and learned helplessness.

