CP-409092

Cat. No.: HY-101639
CAS No.: 194098-25-4
Molecular Formula: C₁₇H₁₉N₃O₂
Molecular Weight: 297.35
Target: GABA Receptor
Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling
Storage: Please store the product under the recommended conditions in the COA.

SOLVENT & SOLUBILITY

In Vitro

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Mass</th>
<th>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>3.3630 mL</td>
<td>16.8152 mL</td>
<td>33.6304 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.6726 mL</td>
<td>3.3630 mL</td>
<td>6.7261 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.3363 mL</td>
<td>1.6815 mL</td>
<td>3.3630 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 (7.00 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (7.00 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (7.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
CP-409092 is a partial agonist of GABA<sub>A</sub> receptor, with anti-anxiety activity<sup>[1]</sup>.

IC<sub>50</sub> & Target
GABA<sub>A</sub> receptor<sup>[1]</sup>

In Vivo
The pharmacokinetics of CP-409,092 following single intravenous and oral doses of 4 and 15 mg/kg, respectively, are characterized by high clearance of 169+ or -18 mL/min/kg, a volume of distribution of 8.99+ or -1.46 L/kg, and an oral bioavailability of 2.9%+ or -3%. Following oral administration of 100 mg/kg <sup>[14]C</sup>CP-409,092, the total recovery is 89.1%+ or -3.2% for male rats and 89.3%+ or -0.58% for female rats<sup>[1]</sup>.
REFERENCES