LY450108

Cat. No.: HY-10935
CAS No.: 376594-67-1
Molecular Formula: C₁₉H₂₂F₂N₂O₃S
Molecular Weight: 396.45
Target: iGluR
Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling
Storage: Powder
-20°C: 3 years
-4°C: 2 years
In solvent
-80°C: 2 years
-20°C: 1 year

SOLVENT & SOLUBILITY

In Vitro

DMSO: ≥ 50 mg/mL (126.12 mM)
H₂O: 1 mg/mL (2.52 mM; Need ultrasonic and warming)
* “≥” means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>1 mM</td>
<td></td>
<td></td>
<td>2.5224 mL</td>
<td>12.6119 mL</td>
<td>25.2239 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td></td>
<td>0.5045 mL</td>
<td>2.5224 mL</td>
<td>5.0448 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td></td>
<td>0.2522 mL</td>
<td>1.2612 mL</td>
<td>2.5224 mL</td>
</tr>
</tbody>
</table>

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
LY450108 is a potent AMPA receptor potentiator. LY450108 has the potential for depression and Parkinson's disease research[1][2][3][4].

In Vitro
AMPA receptors mediate most of the excitatory neurotransmission and play a key role in synaptic plasticity in the mammalian central nervous system (CNS). Recent evidence has shown that in addition to modulating fast synaptic plasticity...
and memory processes, AMPA receptor potentiators alter downstream signalling pathways and may thereby have utility in other CNS disorders.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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**REFERENCES**


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**CUSTOMER VALIDATION**

- Behav Brain Res. 2022 Feb 22;424:113813.

See more customer validations on www.MedChemExpress.com

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

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