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  6 months
-20°C  1 month

Solvent & Solubility

In Vitro
DMSO : ≥ 50 mg/mL (126.12 mM)
H₂O : < 0.1 mg/mL (insoluble)
* "≥" means soluble, but saturation unknown.

**Preparing Stock Solutions**

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</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>0.5045 mL</td>
<td>2.5224 mL</td>
<td>5.0448 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.2522 mL</td>
<td>1.2612 mL</td>
<td>2.5224 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 >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.31 mM); Clear solution
3. 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

BIOLOGICAL ACTIVITY

Description
LY450108 is an alpha-amino-3-hydroxy-5-methyl-4-isoxazole-propionic acid (AMPA) receptor potentiator. IC50 value:
Target: 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.

REFERENCES


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