Ampalex

Cat. No.: HY-10933
CAS No.: 154235-83-3
Molecular Formula: C₁₄H₁₅N₃O
Molecular Weight: 241.29
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: ≥ 41 mg/mL (169.92 mM)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>4.1444 mL</td>
<td>20.7220 mL</td>
<td>41.4439 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.8289 mL</td>
<td>4.1444 mL</td>
<td>8.2888 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.4144 mL</td>
<td>2.0722 mL</td>
<td>4.1444 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description

Ampalex (Ampakine CX516; CX516; BDP 12) is an ampakine and nootropic that acts as an AMPA receptor positive allosteric modulator as a treatment for Alzheimer’s disease, schizophrenia and mild cognitive impairment (MCI). IC50 value: Target: AMPA receptorAmpalex ameliorates functional deficits in AMPA receptors in a hippocampal slice model of protein accumulation. Researches suggest that AMPA receptors may be potential pharmaceutical targets for the treatment of neurodegenerative diseases, and highlights AMPAkines, in particular, as possible therapeutic agents.

REFERENCES


