Almorexant hydrochloride

Cat. No.: HY-10805A
CAS No.: 913358-93-7
Molecular Formula: C₂₉H₃₂ClF₃N₂O₃
Molecular Weight: 549.02
Target: Orexin Receptor (OX Receptor)
Pathway: GPCR/G Protein
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 : ≥ 46 mg/mL (83.79 mM)
* “≥” means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Mass Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1 mM</td>
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<tr>
<td></td>
<td></td>
<td>1.8214 mL</td>
<td>9.1071 mL</td>
<td>18.2143 mL</td>
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<td></td>
<td></td>
<td>5 mM</td>
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<tr>
<td></td>
<td></td>
<td>0.3643 mL</td>
<td>1.8214 mL</td>
<td>3.6429 mL</td>
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<tr>
<td></td>
<td></td>
<td>10 mM</td>
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<tr>
<td></td>
<td></td>
<td>0.1821 mL</td>
<td>0.9107 mL</td>
<td>1.8214 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: ≥ 2.5 mg/mL (4.55 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.55 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.55 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Almorexant hydrochloride (ACT 078573 hydrochloride) is a potent and competitive dual orexin 1 receptor (OX1)/orexin 2 receptor (OX2) antagonist with $K_i$ values of 1.3 and 0.17 nM, respectively.

IC₅₀ & Target
IC₅₀: 1.3/0.7 nM(OX1/OX2 receptor)
CUSTOMER VALIDATION


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REFERENCES


