Loratadine

Cat. No.: HY-17043
CAS No.: 79794-75-5
Molecular Formula: C₂₂H₂₃ClN₂O₂
Molecular Weight: 382.88
Target: Histamine Receptor
Pathway: GPCR/G Protein; Immunology/Inflammation
Storage: Powder
-20°C: 3 years
4°C: 2 years
In solvent
-80°C: 6 months
-20°C: 1 month

Solvent & Solubility

<table>
<thead>
<tr>
<th>Solvent &amp; Solubility</th>
<th>In Vitro</th>
<th>DMSO : 50 mg/mL (130.59 mM; Need ultrasonic)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparing Stock Solutions</td>
<td>Solvent Concentration</td>
<td>1 mg</td>
</tr>
<tr>
<td>1 mM</td>
<td>2.6118 mL</td>
<td>13.0589 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5224 mL</td>
<td>2.6118 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2612 mL</td>
<td>1.3059 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 (6.53 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.53 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.53 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Loratadine(SCH-29851) is a selective inverse peripheral histamine H1-receptor agonist with an IC50 of >32 μM. IC50 value: 32 μM. Target: H1-receptor. Loratadine is a non-sedative antihistamine that inhibits histamine-induced activities of IL-6 and IL-8 secretion in endothelial cells.

REFERENCES

1. www.MedChemExpress.com


