**Loratadine**

Cat. No.: HY-17043  
CAS No.: 79794-75-5  
Molecular Formula: C₂₂H₂₃ClN₂O₂  
Molecular Weight: 382.88  
Target: Histamine Receptor; Flavivirus  
Pathway: GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Anti-infection  
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 (130.59 mM; Need ultrasonic)  

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td>2.6118 mL</td>
<td>13.0589 mL</td>
<td>26.1178 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5224 mL</td>
<td>2.6118 mL</td>
<td>5.2236 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2612 mL</td>
<td>1.3059 mL</td>
<td>2.6118 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. Loratadine has anti-dengue-virus (DENV) activity. Loratadine can inhibit immunologic release of inflammatory mediators.

**IC₅₀ & Target**  
H₁ Receptor

**In Vitro**  
Loratadine is an antihistamine that inhibits histamine-induced activities of IL-6 and IL-8 secretion in endothelial cells. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
REFERENCES


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

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