Desloratadine

Cat. No.: HY-B0539  
CAS No.: 100643-71-8  
Molecular Formula: C₁₉H₁₉ClN₂  
Molecular Weight: 310.82  
Target: Histamine Receptor; Endogenous Metabolite  
Pathway: GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Metabolic Enzyme/Protease  
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 : 25 mg/mL (80.43 mM; Need ultrasonic)  
H₂O : 0.67 mg/mL (2.16 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Solvent</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>DMSO</td>
<td>3.2173 mL</td>
<td>16.0865 mL</td>
<td>32.1730 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>DMSO</td>
<td>0.6435 mL</td>
<td>3.2173 mL</td>
<td>6.4346 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>DMSO</td>
<td>0.3217 mL</td>
<td>1.6086 mL</td>
<td>3.2173 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 (8.04 mM); Clear solution  
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.5 mg/mL (8.04 mM); Clear solution  
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.5 mg/mL (8.04 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Desloratadine (Sch34117) is the orally active major metabolite of the nonsedating H1-antihistamine Loratadine. Desloratadine is a selective H1-receptor antagonist that has anti-allergic and anti-inflammatory activities[1][2].

IC₅₀ & Target
H₁ Receptor  
Human Endogenous Metabolite
CUSTOMER VALIDATION

- iScience. 5 January 2022, 103731.

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REFERENCES


