Desloratadine

Cat. No.: HY-B0539
CAS No.: 100643-71-8
Molecular Formula: 
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, 6 months
- -20°C, 1 month

SOLVENT & SOLUBILITY

In Vitro
DMSO: 25 mg/mL (80.43 mM; Need ultrasonic)
H2O: 0.67 mg/mL (2.16 mM; Need ultrasonic)

Preparation of Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Solvent</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mg</td>
<td>3.2173 mL</td>
<td>16.0865 mL</td>
</tr>
<tr>
<td>5 mg</td>
<td>0.6435 mL</td>
<td>3.2173 mL</td>
</tr>
<tr>
<td>10 mg</td>
<td>0.3217 mL</td>
<td>1.6086 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-ß-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


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REFERENCES


