**Bilastine**

**Cat. No.:** HY-14447  
**CAS No.:** 202189-78-4  
**Molecular Formula:** C$_{28}$H$_{37}$N$_{3}$O$_{3}$  
**Molecular Weight:** 463.61  
**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

**In Vitro**  
DMSO: $\geq$ 49.3 mg/mL (106.34 mM)  
*“$\geq$” means soluble, but saturation unknown.*

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Mass</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>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td>2.1570 mL</td>
<td>10.7849 mL</td>
<td>21.5699 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4314 mL</td>
<td>2.1570 mL</td>
<td>4.3140 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2157 mL</td>
<td>1.0785 mL</td>
<td>2.1570 mL</td>
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</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

**Description**

Bilastine is a selective histamine H1 receptor antagonist used for treatment of allergic rhinoconjunctivitis and urticaria. Target: Histamine H1 Receptor  
Bilastine binds to histamine H1-receptors as indicated by its displacement of [3H]-pyrilamine from H1-receptors expressed in guinea-pig cerebellum and human embryonic kidney (HEK) cell lines. The studies conducted on guinea-pig smooth muscle demonstrated the capability of bilastine to antagonise H1-receptors. Bilastine is selective for histamine H1-receptors as shown in receptor-binding screening conducted to determine the binding capacity of bilastine to 30 different receptors [1]. Bilastine distribution has an apparent volume of distribution of 1.29 L/kg, and has an elimination half-life of 14.5 h and plasma protein binding of 84-90% [2].

### REFERENCES


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