**SUN 1334H**

**Cat. No.:** HY-U00084  
**CAS No.:** 607736-84-5  
**Molecular Formula:** C₂₃H₂₈Cl₂F₂N₂O₃  
**Molecular Weight:** 489.38  
**Target:** Histamine Receptor  
**Pathway:** GPCR/G Protein; Immunology/Inflammation  
**Storage:** Please store the product under the recommended conditions in the COA.

### Solvent & Solubility

**In Vitro**  
10 mM in DMSO

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.0434 mL</td>
<td>10.2170 mL</td>
<td>20.4340 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4087 mL</td>
<td>2.0434 mL</td>
<td>4.0868 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2043 mL</td>
<td>1.0217 mL</td>
<td>2.0434 mL</td>
</tr>
</tbody>
</table>

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

### BIOLOGICAL ACTIVITY

**Description**  
SUN 1334H is a potent, orally active, highly selective H₁ receptor antagonist, with \( K_i \) of 9.7 nM.

**IC₅₀ & Target**  
\( K_i: 9.7 \text{ nM (H1 receptor)}^{[1]} \)

**In Vitro**  
SUN-1334H causes potent inhibition of histamine induced contractions of isolated guinea-pig ileum with an IC₅₀ (half the maximal inhibitory concentration) of 0.198 \( \mu \)M. In CHO-K1/hERG cells, SUN-1334H does not modulate hERG K⁺-currents at concentrations as high as 100 \( \mu \)M[1]. SUN-1334H, cetirizine and hydroxyzine cause comparable inhibition of NLF leukocytes, IL-4 and total protein concentrations[2].

**In Vivo**  
SUN-1334H potently inhibits histamine-induced bronchospasm over 24 hours following oral administration and completely suppresses histamine-induced skin wheal in beagle dogs and ovalbumin-induced rhinitis in guinea pigs[1]. In skin allergy models, SUN-1334H shows potent reduction of passive and active cutaneous anaphylactic reactions. In central nervous system side effects models, SUN-1334H, desloratadine and fexofenadine are devoid of any significant effects[2].
REFERENCES
