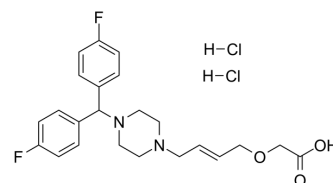


SUN 1334H

Cat. No.:	HY-U00084
CAS No.:	607736-84-5
Molecular Formula:	C ₂₃ H ₂₈ Cl ₂ F ₂ N ₂ O ₃
Molecular Weight:	489.38
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	SUN-1334H is a potent, orally active, highly selective H1 receptor antagonist, with K _i of 9.7 nM.
IC₅₀ & Target	Ki: 9.7 nM (H1 receptor) ^[1]
In Vitro	SUN-1334H causes potent inhibition of histamine induced contractions of isolated guinea-pig ileum with an IC ₅₀ (half the maximal inhibitory concentration) of 0.198 μM. In CHO-K1/hERG cells, SUN-1334H does not modulate hERG K ⁺ -currents at concentrations as high as 100 μM ^[1] . SUN-1334H, cetirizine and hydroxyzine cause comparable inhibition of NLF leukocytes, IL-4 and total protein concentrations ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Mandhane SN, et al. Preclinical efficacy and safety pharmacology of SUN-1334H, a potent orally active antihistamine agent. *Drugs R D*. 2008;9(2):93-112.
- [2]. Mandhane SN, et al. Characterization of anti-inflammatory properties and evidence for no sedation liability for the novel antihistamine SUN-1334H. *Int Arch Allergy Immunol*. 2010;151(1):56-69.

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

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