
Product Data Sheet

Product Name: SUN 1334H

Cat. No.: GC31800

Chemical Properties

Cas. No. 607736-84-5

SMILES O=C(O)COC/C=C/CN1CCN(C(C2=CC=C(F)C=C2)C3=CC=C(F)C=C3)CC1.[H]Cl.[H]ClFormula $C_{23}H_{28}Cl_2F_2N_2O_3$

M.Wt 489.38

Solubility Soluble in DMSO

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

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

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 μ M. In CHO-K1/hERG cells, SUN-1334H does not modulate hERG K^+ -currents at concentrations as high as 100 μ M[1]. SUN-1334H, cetirizine and hydroxyzine cause comparable inhibition of NLF leukocytes, IL-4 and total protein concentrations[2].

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].

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

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[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.

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