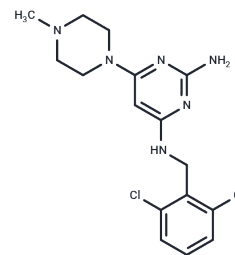


ST-1006

Chemical Properties

CAS No. : 1196994-11-2
 Formula: C₁₆H₂₀Cl₂N₆
 Molecular Weight: 367.28
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	ST-1006, a potent histamine H ₄ receptor agonist (pK _i : 7.94), exhibits significant anti-inflammatory and anti-pruritic effects. It is also a potent inducer of basophil migration.
Targets(IC ₅₀)	Histamine Receptor
In vitro	ST-1006 (10 μM) effectively induces eosinophil migration and, at concentrations ranging from 0-100 μM, inhibits FcεRI-mediated eosinophil activation, reducing CD63 and CD203c expression in activated eosinophils through FcεRI activation [3].
In vivo	ST-1006 (1-100 mg/kg; s.c.; male CD-1 mice) demonstrates anti-inflammatory and anti-itch properties [5].

Solubility Information

Solubility	DMSO: 3.68 mg/mL (10.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7227 mL	13.6136 mL	27.2272 mL
5 mM	0.5445 mL	2.7227 mL	5.4454 mL
10 mM	0.2723 mL	1.3614 mL	2.7227 mL
50 mM	0.0545 mL	0.2723 mL	0.5445 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Lucarini L, et al. Role of histamine H4 receptor ligands in bleomycin-induced pulmonary fibrosis. *Pharmacol Res.* 2016;111:740-748.
- Ehling S, et al. Allergic inflammation is augmented via histamine H4 receptor activation: The role of natural killer cells in vitro and in vivo. *J Dermatol Sci.* 2016;83(2):106-115.
- Mommert S, et al. Human basophil chemotaxis and activation are regulated via the histamine H4 receptor. *Allergy.* 2016;71(9):1264-1273.
- Sanna MD, et al. Histamine H4 receptor activation alleviates neuropathic pain through differential regulation of ERK, JNK, and P38 MAPK phosphorylation. *Pain.* 2015;156(12):2492-504.
- Adami M, et al. Differential effects of functionally different histamine H4 receptor ligands on acute irritant dermatitis in mice. *Naunyn Schmiedebergs Arch Pharmacol.* 2018;391(12):1387-1397.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481