

## ST-1006

Cat. No.: HY-120541 CAS No.: 1196994-11-2 Molecular Formula:  $C_{16}H_{20}Cl_2N_6$ Molecular Weight: 367.28

Target: Histamine Receptor

Pathway: GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling

Storage: 4°C, protect from light

\* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

## **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 125 mg/mL (340.34 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7227 mL	13.6136 mL	27.2272 mL
ototi. Gotations	5 mM	0.5445 mL	2.7227 mL	5.4454 mL
	10 mM	0.2723 mL	1.3614 mL	2.7227 mL

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

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Description	ST-1006 is a potent histami	ne H4 receptor agonist with a p $K_i$ value of 7.94. ST-1006 has anti-inflammatory effect [1][2].
IC <sub>50</sub> & Target	H <sub>4</sub> receptor 7.94 (pKi)	
In Vitro	ST-1006 (0-100 μM) suppres FceRI-activated basophils <sup>[2</sup>	inducer of basophil migration and induces migration of basophils <sup>[2]</sup> . sses FceRImediated basophil activation and reduces the CD63 and CD203c expression levels on each confirmed the accuracy of these methods. They are for reference only.
In Vivo		Male CD-1 mice) has anti-inflammatory effect and displays an antipruritic effect <sup>[1]</sup> .  confirmed the accuracy of these methods. They are for reference only.  Male CD-1 mice with pruritus (8-10 weeks and 25-30 g) <sup>[1]</sup> 1-100 mg/kg

Administration:	Subcutaneous injection
Result:	Had an antipruritic effect at the non-anti-inflammatory dose of 30 mg/kg.

## **REFERENCES**

[1]. Adami M, et, al. Differential effects of functionally different histamine H4 receptor ligands on acute irritant dermatitis in mice. Naunyn Schmiedebergs Arch Pharmacol. 2018 Dec;391(12):1387-1397.

[2]. Mommert S, et, al. Human basophil chemotaxis and activation are regulated via the histamine H4 receptor. Allergy. 2016 Sep;71(9):1264-73.

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

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