# Data Sheet (Cat.No.T34709)



#### ST-1006

## **Chemical Properties**

CAS No.: 1196994-11-2

Formula: C16H20Cl2N6

Molecular Weight: 367.28

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

# **Biological Description**

Description  ST-1006 is a potent histamine H4 receptor agonist (pKi: 7.94).ST-1006 has antinflammatory effects.ST-1006 is a potent inducer of basophil migration and in basophil migration.ST-1006 is a potent inducer of basophil migration. ST-1006 inflammatory and anti-pruritic effects.	
Targets(IC50)	Histamine Receptor
In vitro	ST-1006 (10 µM) is an effective inducer of eosinophil migration, promoting eosinophil migration [3].  ST-1006 (0-100 µM) inhibits FceRI-mediated eosinophil activation and reduces the expression levels of CD63 and CD203c in activated eosinophils through FceRI activation [3].
In vivo	ST-1006 (1-100 mg/kg; s.c.; male CD-1 mice) exhibits anti-inflammatory and anti-itch properties [5].

# **Solubility Information**

Solubility	DMSO: 3.67 mg/mL (10 mM)	
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	

## **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.

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## Reference

Lucarini L, et al. Role of histamine H4 receptor ligands in bleomycin-induced pulmonary fibrosis. Pharmacol Res. 2016;111:740-748.



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