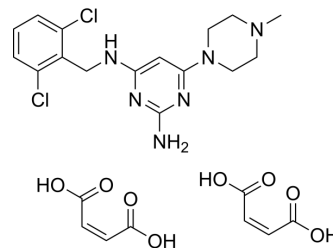


## ST-1006 Maleate

Cat. No.:	HY-120541A
CAS No.:	1196994-12-3
Molecular Formula:	C <sub>24</sub> H <sub>28</sub> Cl <sub>2</sub> N <sub>6</sub> O <sub>8</sub>
Molecular Weight:	599.42
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	ST-1006 maleate is a potent histamine H4 receptor agonist with a pK <sub>i</sub> value of 7.94. ST-1006 maleate has anti-inflammatory effect <sup>[1][2]</sup> .								
<b>In Vitro</b>	ST-1006 (10 μM) maleate is a potent inducer of basophil migration and induces migration of basophils <sup>[2]</sup> . ST-1006 (0-100 μM) maleate suppress FcεRI-mediated basophil activation and reduces the CD63 and CD203c expression levels on FcεRI-activated basophils <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
<b>In Vivo</b>	ST-1006 (1-100 mg/kg; s.c.; Male CD-1 mice) maleate has anti-inflammatory effect and displays an antipruritic effect <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>Male CD-1 mice with pruritus (8-10 weeks and 25-30 g)<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>1-100 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Subcutaneous injection</td> </tr> <tr> <td>Result:</td> <td>Had an antipruritic effect at the non-anti-inflammatory dose of 30 mg/kg.</td> </tr> </table>	Animal Model:	Male CD-1 mice with pruritus (8-10 weeks and 25-30 g) <sup>[1]</sup>	Dosage:	1-100 mg/kg	Administration:	Subcutaneous injection	Result:	Had an antipruritic effect at the non-anti-inflammatory dose of 30 mg/kg.
Animal Model:	Male CD-1 mice with pruritus (8-10 weeks and 25-30 g) <sup>[1]</sup>								
Dosage:	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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