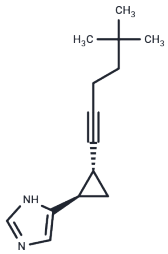
Data Sheet (Cat.No.T14970)

TargetMol

Cipralisant

Chemical Properties



CAS No. : 213027-19-1

Formula: C14H20N2

Molecular Weight: 216.32

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	Cipralisant is a selective histamine H3 receptor antagonist in vivo, and an agonist in vitro (pKi: 9.9 for histamine H3 receptor; Ki: 0.47 nM for rat histamine H3 receptor). It has the potential for the treatment of attention-deficit hyperactivity disorder.
Targets(IC50)	Others,Histamine Receptor
In vitro	Cipralisant acts as a full agonist at the recombinant rat histamine H3 receptor in vitro and potently inhibits forskolin-induced cAMP accumulation (EC50: 0.23 nM). Cipralisant increases the basal [35S]GTPγS binding activities in membranes from HEK cells expressing the rat histamine H3 receptor (EC50: 5.6 nM) [2].
In vivo	Cipralisant (10 mg/kg, p.o.) blocks R-α-methylhistamine (a histamine H3 receptor agonist)-induced water intake in rats [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6228 mL	23.1139 mL	46.2278 mL
5 mM	0.9246 mL	4.6228 mL	9.2456 mL
10 mM	0.4623 mL	2.3114 mL	4.6228 mL
50 mM	0.0925 mL	0.4623 mL	0.9246 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

Tedford CE, et al. High antagonist potency of GT-2227 and GT-2331, new histamine H3 receptor antagonists, in two functional models. Eur J Pharmacol. 1998 Jun 26;351(3):307-11.
Ito S, et al. Detailed pharmacological characterization of GT-2331 for the rat histamine H3 receptor. Eur J Pharmacol. 2006 Jan 4;529(1-3):40-6.