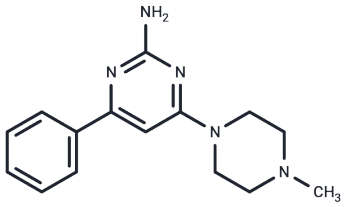
Data Sheet (Cat.No.T3963)

TargetMol
YOUR TARGET MOLECULES

VUF10460

Chemical Properties



CAS No. : 1028327-66-3

Formula: C15H19N5

Molecular Weight: 269.34

Appearance: no data available

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

Biological Description

Description	VUF10460 is a non-imidazole histamine H4 receptor agonist.
Targets(IC50)	Histamine Receptor
In vitro	UF10460 binds to rat H3 and H4 receptor with pKi values of 5.75, and 7.46, respectively, whereas VUF10460 displays approximately a 50-fold selectivity for the rat H4 receptor over the H3 receptor[1].
In vivo	HCl-induced rat gastric lesions is significantly enhanced by the H4 receptor agonists VUF10460. This effect is not modified by H4 receptor antagonist JNJ7777120[1]. VUF10460 displayed approximately a 50-fold selectivity for the rat H(4) receptor over the H(3) receptor.

Solubility Information

Solubility	DMSO: 45 mg/mL (167.07 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7128 mL	18.5639 mL	37.1278 mL
5 mM	0.7426 mL	3.7128 mL	7.4256 mL
10 mM	0.3713 mL	1.8564 mL	3.7128 mL
50 mM	0.0743 mL	0.3713 mL	0.7426 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.

Reference

Coruzzi G, et al. Selective histamine H3 and H4 receptor agonists exert opposite effects against the gastric lesions induced by HCl in the rat stomach. Eur J Pharmacol. 2011 Nov 1;669(1-3):121-7.

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