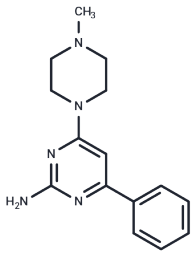
Data Sheet (Cat.No.T3963)

TargetMol

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, a non-imidazole histamine H4 receptor agonist, [58C8-51-20-3] is structurally classified under the chlorobenzylpiperazine ethers with the IUPAC designation (2-[(2-chlorophenyl)methyl]-1-piperazinyl)(1H-indol-3-yl)methanone. It is typically utilized in pharmacological research and exhibits specificity for the H4 subtype, making it a valuable tool in immunological studies.
Targets(IC50)	Histamine Receptor
In vitro	UF10460 exhibits binding affinities to rat H3 and H4 receptors with pKi values of 5.75 and 7.46, respectively, whereas VUF10460 demonstrates approximately 50-fold selectivity for the rat H4 receptor over the H3 receptor [1].
In vivo	HCl-induced rat gastric lesions are significantly enhanced by the H4 receptor agonist VUF10460, an effect not altered by the H4 receptor antagonist JNJ7777120[1]. VUF10460 exhibits approximately 50-fold selectivity for the rat H(4) receptor over the H(3) receptor.

Solubility Information

Solubility	DMSO: 45 mg/mL (167.08 mM),Sonication is recommended. (< 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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