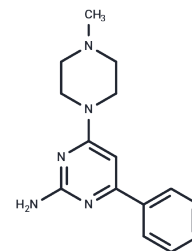


VUF10460

## Chemical Properties

CAS No. : 1028327-66-3  
 Formula: C<sub>15</sub>H<sub>19</sub>N<sub>5</sub>  
 Molecular Weight: 269.34  
 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	VUF10460, a non-imidazole histamine H <sub>4</sub> 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 H <sub>4</sub> subtype, making it a valuable tool in immunological studies.
Targets(IC <sub>50</sub> )	Histamine Receptor
In vitro	UF10460 exhibits binding affinities to rat H <sub>3</sub> and H <sub>4</sub> receptors with pK <sub>i</sub> values of 5.75 and 7.46, respectively, whereas VUF10460 demonstrates approximately 50-fold selectivity for the rat H <sub>4</sub> receptor over the H <sub>3</sub> receptor [1].
In vivo	HCl-induced rat gastric lesions are significantly enhanced by the H <sub>4</sub> receptor agonist VUF10460, an effect not altered by the H <sub>4</sub> 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)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.43 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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

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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

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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