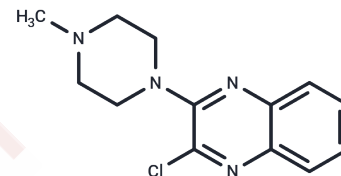


VUF 10166

## Chemical Properties

CAS No. : 155584-74-0  
 Formula: C<sub>13</sub>H<sub>15</sub>ClN<sub>4</sub>  
 Molecular Weight: 262.74  
 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	VUF10166 is a novel, potent and competitive antagonist for 5-HT <sub>3A</sub> receptor with K <sub>i</sub> of 0.04 nM, its affinity at 5-HT <sub>3AB</sub> receptor is significantly lower.
Targets(IC <sub>50</sub> )	5-HT Receptor
In vitro	VUF10166 shows low activity to 5-HT <sub>3AB</sub> receptor with K <sub>i</sub> of 22 nM. VUF10166 may be used to can distinguish between 5-HT <sub>3A</sub> and 5-HT <sub>3AB</sub> receptors. VUF10166 has no activity to α <sub>7</sub> nACh receptor. VUF10166 also acts as a partial agonist at 5-HT <sub>3A</sub> receptors with EC <sub>50</sub> of 5.2 μM, which shows that VUF10166 is unlikely to bind in the receptor pore. [1]

## Solubility Information

Solubility	Ethanol: 26.3 mg/mL (100.1 mM),Sonication is recommended. DMSO: 26.3 mg/mL (100.1 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 (7.61 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	3.806 mL	19.0302 mL	38.0604 mL
5 mM	0.7612 mL	3.806 mL	7.6121 mL
10 mM	0.3806 mL	1.903 mL	3.806 mL
50 mM	0.0761 mL	0.3806 mL	0.7612 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

Thompson AJ, et al. J Pharmacol Exp Ther, 2012, 341(2), 350-9.

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