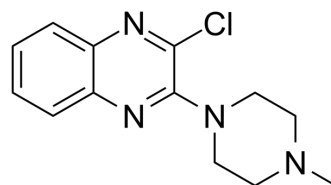


## VUF10166

Cat. No.:	HY-100552
CAS No.:	155584-74-0
Molecular Formula:	C <sub>13</sub> H <sub>15</sub> ClN <sub>4</sub>
Molecular Weight:	262.74
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (380.60 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	3.8060 mL	19.0302 mL	38.0604 mL
		5 mM	0.7612 mL	3.8060 mL	7.6121 mL
		10 mM	0.3806 mL	1.9030 mL	3.8060 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.52 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.52 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.52 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	VUF10166 is a potent and high-affinity 5-HT <sub>3</sub> receptor antagonist, with K <sub>i</sub> values of 0.04 nM (5-HT <sub>3A</sub> ) and 22 nM (5-HT <sub>3AB</sub> ). VUF10166 inhibits 5-HT-induced responses at 5-HT <sub>3A</sub> and 5-HT <sub>3AB</sub> receptors at nanomolar concentrations. At 5-HT <sub>3</sub> receptor, VUF10166 at higher concentrations also acts as a partial agonist, with an EC <sub>50</sub> of 5.2 μM <sup>[1]</sup> .	
IC <sub>50</sub> & Target	5-HT <sub>3A</sub> Receptor 0.04 nM (K <sub>i</sub> )	5-HT <sub>3AB</sub> 22 nM (K <sub>i</sub> )

### REFERENCES

**Caution: Product has not been fully validated for medical applications. For research use only.**

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