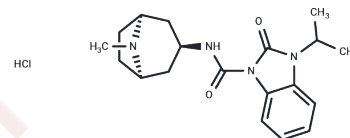


## BIMU 8

## Chemical Properties

CAS No. :	134296-40-5
Formula:	C <sub>19</sub> H <sub>27</sub> ClN <sub>4</sub> O <sub>2</sub>
Molecular Weight:	378.9
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	BIMU 8 is a selective agonist of 5-HT <sub>4</sub> with EC <sub>50</sub> s of 18 nM, 77 nM, and 540 nM for wild-type 5HT <sub>4</sub> receptor, T3.36A, and W6.48A mutant 5-HT <sub>4</sub> .
Targets(IC <sub>50</sub> )	5-HT Receptor
In vitro	BIMU 8 (0.003-0.1 μM) increases excitatory postsynaptic potentials amplitude without changing the membrane potential of any neuron in myenteric neurons of guinea pig ileum[1].
In vivo	BIMU 8 (20-30 mg/kg s.c. and 60 mg/kg p.o. in mice; 20 mg/kg i.p. in rats), produces significant antinociception. In mice, BIMU 8 (10 μg; i.c.v) which is largely ineffective by parenteral routes induces antinociception[2].

## Solubility Information

Solubility	DMSO: 45 mg/mL (118.76 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6392 mL	13.1961 mL	26.3922 mL
5 mM	0.5278 mL	2.6392 mL	5.2784 mL
10 mM	0.2639 mL	1.3196 mL	2.6392 mL
50 mM	0.0528 mL	0.2639 mL	0.5278 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.

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

H Pan , et al. 5-HT1A and 5-HT4 receptors mediate inhibition and facilitation of fast synaptic transmission in enteric neurons. *Am J Physiol.* 1994 Feb;266(2 Pt 1):G230-8.

C Ghelardini, et al. Central cholinergic antinociception induced by 5HT4 agonists: BIMU 1 and BIMU 8. *Life Sci.* 1996;58(25):2297-309.

Lucie P Pellissier, et al. Conformational toggle switches implicated in basal constitutive and agonist-induced activated states of 5-hydroxytryptamine-4 receptors. *Mol Pharmacol.* 2009 Apr;75(4):982-90.

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