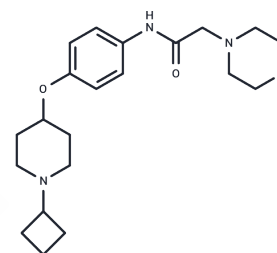


## Samelisant

## Chemical Properties

CAS No. : 1394808-82-2  
 Formula: C<sub>21</sub>H<sub>31</sub>N<sub>3</sub>O<sub>3</sub>  
 Molecular Weight: 373.49  
 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	Samelisant (SUVN-G3031) is a selective and inverse agonist of H3 receptor with Kis of 8.7 nM and 9.8 nM for human and rat. Samelisant has anticataplectic effects and can be used in studies about narcolepsy.
Targets(IC50)	Histamine Receptor
In vitro	Samelisant (1, 10, and 100 nM) increases the pEC50 from 8.5 to 8.2, 7.3, and 6.2 for human H3 receptor and from 8.2 to 7.9, 7.4, and 6.4 for rat H3 receptor, respectively. Samelisant modulates dopamine and norepinephrine levels in the cerebral cortex. Samelisant reversibly binds to the orthosteric site with Kbs of 1.3 nM and 1.1 nM[1].
In vivo	In orexin knockout mice subjected to sleep EEG, Samelisant (10 and 30 mg/kg; p.o.) significantly increases wakefulness and concomitantly decreases NREM sleep. Samelisant significantly decreases direct REM sleep onset episodes and dose-dependently increases the level of tele-methylhistamine[1].

## Solubility Information

Solubility	DMSO: 50 mg/mL (133.87 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.6774 mL	13.3872 mL	26.7745 mL
5 mM	0.5355 mL	2.6774 mL	5.3549 mL
10 mM	0.2677 mL	1.3387 mL	2.6774 mL
50 mM	0.0535 mL	0.2677 mL	0.5355 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

Nirogi R, et al. Samelisant (SUVN-G3031), a potent, selective and orally active histamine H3 receptor inverse agonist for the potential treatment of narcolepsy: pharmacological and neurochemical characterisation. *Psychopharmacology (Berl)*. 2021 Jun;238(6):1495-1511.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481