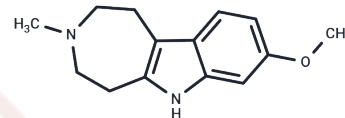


## Tabernanthalog

## Chemical Properties

CAS No. :	2483829-58-7
Formula:	C <sub>14</sub> H <sub>18</sub> N <sub>2</sub> O
Molecular Weight:	230.31
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Tabernanthalog (TBG) is a 5-HT <sub>2A</sub> agonist. In rodents, Tabernanthalog has been found to promote structural neuroplasticity, reduce alcohol-seeking and heroin-seeking behavior, and produce antidepressant effects.
Targets(IC <sub>50</sub> )	5-HT Receptor
In vivo	After 7 days of unpredictable mild stress (UMS) in mice, immobility time was significantly increased after UMS. This effect was rescued by a 50 mg/kg, but not 10 mg/kg, dose of Tabernanthalog.

## Solubility Information

Solubility	DMSO: 100 mg/mL (434.2 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	4.342 mL	21.7099 mL	43.4197 mL
5 mM	0.8684 mL	4.342 mL	8.6839 mL
10 mM	0.4342 mL	2.171 mL	4.342 mL
50 mM	0.0868 mL	0.4342 mL	0.8684 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

Cameron LP, et al. A non-hallucinogenic psychedelic analogue with therapeutic potential. Nature. 2021 Jan;589 (7842):474-479.

Xie L, Liu X, Yao Y, et al. Serine 3.39 and isoleucine 4.60 are key sites for 5-HT<sub>2A</sub>R-mediated Gs signaling. FEBS letters. 2024

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