

VU0650786

## Chemical Properties

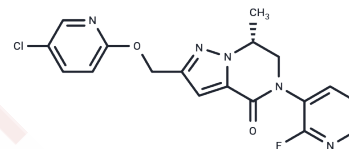
CAS No. : 1809085-30-0

Formula: C<sub>18</sub>H<sub>15</sub>ClFN<sub>5</sub>O<sub>2</sub>

Molecular Weight: 387.8

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	VU0650786 is a selective and potent CNS-penetrant negative allosteric modulator of metabotropic glutamate receptor subtype 3 (mGlu3 NAM) (IC <sub>50</sub> : 392 nM), exhibiting antidepressant and anxiolytic activity in rodents.
Targets(IC <sub>50</sub> )	GluR

## Solubility Information

Solubility	H <sub>2</sub> O: insoluble, DMSO: 240 mg/mL (618.88 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: 5 mg/mL (12.89 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

	1mg	5mg	10mg
1 mM	2.5786 mL	12.8932 mL	25.7865 mL
5 mM	0.5157 mL	2.5786 mL	5.1573 mL
10 mM	0.2579 mL	1.2893 mL	2.5786 mL
50 mM	0.0516 mL	0.2579 mL	0.5157 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

Engers JL, et al. Discovery of a Selective and CNS Penetrant Negative Allosteric Modulator of Metabotropic Glutamate Receptor Subtype 3 with Antidepressant and Anxiolytic Activity in Rodents. J Med Chem. 2015 Sep 24;58 (18):7485-500.

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