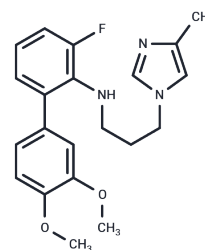


## Glutaminyl Cyclase Inhibitor 1

## Chemical Properties

CAS No. :	2110449-60-8
Formula:	C <sub>21</sub> H <sub>24</sub> FN <sub>3</sub> O <sub>2</sub>
Molecular Weight:	369.43
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	Glutaminyl Cyclase Inhibitor 1, a glutaminyl cyclase inhibitor with an IC <sub>50</sub> of 0.5 μM, can be utilized for studying neurological disorders.
Targets(IC <sub>50</sub> )	Beta Amyloid, Glutaminyl Cyclase
In vitro	Glutaminyl Cyclase Inhibitor 1 is a glutaminyl cyclase inhibitor with an IC <sub>50</sub> of 0.5 μM[1].

## Solubility Information

Solubility	Ethanol: 80 mg/mL (216.55 mM), Sonication is recommended. DMSO: 50 mg/mL (135.34 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: 2 mg/mL (5.41 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

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	1mg	5mg	10mg
1 mM	2.7069 mL	13.5344 mL	27.0687 mL
5 mM	0.5414 mL	2.7069 mL	5.4137 mL
10 mM	0.2707 mL	1.3534 mL	2.7069 mL
50 mM	0.0541 mL	0.2707 mL	0.5414 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

Li M, et al. Synthesis and Evaluation of Diphenyl Conjugated Imidazole Derivatives as Potential Glutaminyl Cyclase Inhibitors for Treatment of Alzheimer's Disease. J Med Chem. 2017 Aug 10;60(15):6664-6677.

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