

## **Glutaminyl Cyclase Inhibitor 1**

Cat. No.: HY-112269 CAS No.: 2110449-60-8 Molecular Formula:  $C_{21}H_{24}FN_{3}O_{2}$ Molecular Weight: 369.43 Target: Amyloid-β

Pathway: **Neuronal Signaling** 

Storage: Powder -20°C 3 years

2 years

In solvent -80°C 2 years

> -20°C 1 year

## **SOLVENT & SOLUBILITY**

In Vitro Ethanol: 100 mg/mL (270.69 mM; Need ultrasonic)

DMSO: 83.33 mg/mL (225.56 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.63 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.63 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.63 mM); Clear solution

## **BIOLOGICAL ACTIVITY**

Description	Glutaminyl Cyclase Inhibitor 1 is a glutaminyl cyclase inhibitor with an IC $_{50}$ of 0.5 $\mu$ M.		
IC <sub>50</sub> & Target	IC50: 0.5 μM (Glutaminyl cyclase) <sup>[1]</sup>		
In Vitro	Glutaminyl Cyclase Inhibitor 1 is compound 23 <sup>[1]</sup> .  MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES						
[1]. 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.						
	Caution: Product has no	ot been fully validated for me	dical applications. For research use only.			
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