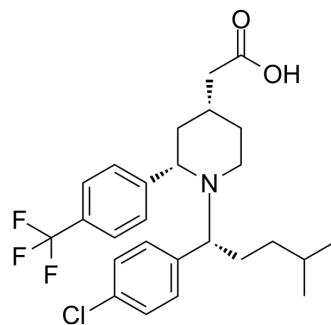


GSM-1

Cat. No.:	HY-119165		
CAS No.:	884600-68-4		
Molecular Formula:	C ₂₆ H ₃₁ ClF ₃ NO ₂		
Molecular Weight:	481.98		
Target:	γ-secretase		
Pathway:	Neuronal Signaling; Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (207.48 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.0748 mL	10.3739 mL	20.7477 mL
		5 mM	0.4150 mL	2.0748 mL	4.1495 mL
10 mM		0.2075 mL	1.0374 mL	2.0748 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.19 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.19 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	GSM-1 is a potent γ-secretase modulator. GSM-1 directly targets the transmembrane domain (TMD) 1 of presenilin 1 (PS1) ^[1] [2].
In Vitro	GSM-1 increases the levels of Aβ ₃₈ produced from WT APP. GSM-1 potently lowers the levels of Aβ ₄₂ of WT APP and all the Phe mutants by -70–80%, even for the V44F mutant, which produced only extremely small amounts of Aβ ₄₂ ^[1] . GSM-1 directly binds to the N-terminal fragment of PS1 ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Richard M, et al. Beta-amyloid Precursor Protein Mutants Respond to Gamma-Secretase Modulators. J Biol Chem. 2010 Jun 4;285(23):17798-810.

[2]. Yu Ohki, et al. Phenylpiperidine-type γ -secretase Modulators Target the Transmembrane Domain 1 of Presenilin 1. EMBO J. 2011 Oct 14;30(23):4815-24.

Caution: Product has not been fully validated for medical applications. For research use only.

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