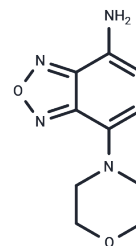


δ -secretase inhibitor 11

Chemical Properties

CAS No. :	842964-18-5
Formula:	C ₁₀ H ₁₂ N ₄ O ₂
Molecular Weight:	220.23
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	δ -secretase inhibitor 11 is an inhibitor of δ -secretase and can be used as a lead compound for translational development of AD treatment.
Targets(IC50)	Beta Amyloid,Caspase
In vitro	The inhibitory effect of δ -secretase inhibitor 11 on AEP activity in vitro was tested and the dose-response relationship revealed that the δ -secretase inhibitor 11 had an IC50 value of 0.15±0.09μM [1].
In vivo	It was found that oral administration of δ -secretase inhibitor 11 (10mg/kg) significantly suppressed brain AEP activity compared to the vehicle treatment. The concentrations of Aβ ₁₋₄₀ and Aβ ₁₋₄₂ in brain lysates of SAMP8 mice were significantly reduced due to AEP inhibition by δ -secretase inhibitor 11. [1]

Solubility Information

Solubility	DMSO: 2.21 mg/mL (10.03 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	4.5407 mL	22.7035 mL	45.4071 mL
5 mM	0.9081 mL	4.5407 mL	9.0814 mL
10 mM	0.4541 mL	2.2704 mL	4.5407 mL
50 mM	0.0908 mL	0.4541 mL	0.9081 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

Ju Wang, et al. Pharmacological inhibition of asparaginyl endopeptidase by δ -secretase inhibitor 11 mitigates Alzheimer's disease-related pathologies in a senescence-accelerated mouse model. Translational Neurodegeneration volume 10, Article number: 12 (2021).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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