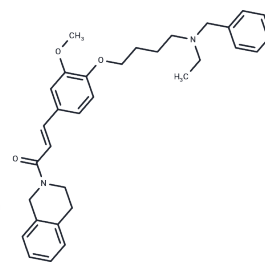


BuChE-IN-TM-10

Chemical Properties

CAS No. :	2313524-95-5
Formula:	C32H38N2O3
Molecular Weight:	498.66
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	BuChE-IN-TM-10 (TM-10) is a potent inhibitor of butyrylcholinesterase (BuChE) with an IC50 of 8.9 nM. It effectively inhibits and disaggregates self-induced Aβ aggregation, exhibits significant antioxidant activity, and demonstrates substantial penetration through the blood-brain barrier (BBB), holding promise as a potential treatment for Alzheimer's disease.
Targets(IC50)	AChR,Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 5.48 mg/mL (10.99 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	2.0054 mL	10.0269 mL	20.0537 mL
5 mM	0.4011 mL	2.0054 mL	4.0107 mL
10 mM	0.2005 mL	1.0027 mL	2.0054 mL
50 mM	0.0401 mL	0.2005 mL	0.4011 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

Sang Z, et al. Design, Synthesis, and Evaluation of Novel Ferulic Acid Derivatives as Multi-Target-Directed Ligands for the Treatment of Alzheimer's Disease. ACS Chem Neurosci. 2019 Feb 20;10(2):1008-1024.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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