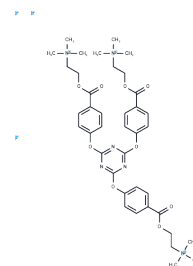


TAE-1

Chemical Properties

CAS No. :	1414469-59-2
Formula:	C39H51I3N6O9
Molecular Weight:	1128.57
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	TAE-1 is an inhibitor of amyloid- β fibril formation and aggregation. It inhibits cholinesterases AChE and BuChE with IC50 of 0.3 μ M and 3.9 μ M, respectively.
Targets(IC50)	Beta Amyloid,Cholinesterase (ChE)
In vitro	The effects of TAE-1 on differentiated human SH-SY5Y neuronal cells grown in tissue culture. Results showed that the stimulation of neuronal cellular process length and branching was noted. Moreover, the increased synaptophysin suggested that TAE-1 could stimulate synapse formation. Increased expression of MAP2 was also observed, indicating that TAE-1 promoted the differentiation of human neurons. In addition, targeted AChE inhibition was evaluated by electrochemical quantification of the enzymatic product, thiocholine, on unmodified gold screen-printed electrodes. It was found that at increasing TAE-1 concentrations, there was a corresponding decrease in the AChE activity resulting in reduced amount of oxidizable thiocholine. The IC50 value was found to be 0.465 μ M for TAE-1[1]

Solubility Information

Solubility	DMSO: 11.29 mg/mL (10 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	0.8861 mL	4.4304 mL	8.8608 mL
5 mM	0.1772 mL	0.8861 mL	1.7722 mL
10 mM	0.0886 mL	0.443 mL	0.8861 mL
50 mM	0.0177 mL	0.0886 mL	0.1772 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

Biological activity of sym-triazines with acetylcholine-like substitutions as multitarget modulators of Alzheimer's disease.[J]. Acs Chemical Neuroscience, 2013, 4(6):924-9.

Veloso A J , Chow A M , Ganesh H , et al. Electrochemical Immunosensors for Effective Evaluation of Amyloid-Beta Modulators on Oligomeric and Fibrillar Aggregation Processes[J]. Analytical Chemistry, 2014, 86(10):4901-9.

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