

PPI-1019

Chemical Properties

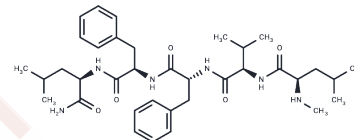
CAS No. : 290828-45-4

Formula: C₃₆H₅₄N₆O₅

Molecular Weight: 650.85

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	PPI-1019 is an APP (β-amyloid A4) inhibitor for the treatment of neurological disorders and the study of Alzheimer's disease (AD).
Targets(IC50)	Beta Amyloid
In vitro	The MTT data for the PPI-1019 using SHY5Y cells after a 24 h aggregation of 10 μM Aβ-(1-42) with IC50 was 10 μM. The N-methylated peptides PPI-1019 show a reduction in cell toxicity at concentrations similar to that used in the thioflavin T assays (IC50=1.6 μM).[1]

Solubility Information

Solubility	DMSO: 1 mg/mL (1.54 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	1.5365 mL	7.6823 mL	15.3645 mL
5 mM	0.3073 mL	1.5365 mL	3.0729 mL
10 mM	0.1536 mL	0.7682 mL	1.5365 mL
50 mM	0.0307 mL	0.1536 mL	0.3073 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

Amijee H, et al. Inhibitors of protein aggregation and toxicity. *Biochem Soc Trans.* 2009;37(Pt 4):692-696.

Kokkoni N, et al. N-Methylated peptide inhibitors of beta-amyloid aggregation and toxicity. Optimization of the inhibitor structure. *Biochemistry.* 2006;45(32):9906-9918.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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