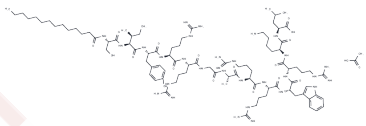
Data Sheet (Cat.No.TP1924L1)

TargetMol

ZIP acetate(863987-12-6 free base)

Chemical Properties



CAS No. :

Formula: C92H158N30O19

Molecular Weight: 1988.43

Storage: Keep away from moisture
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	ZIP acetate is a novel, cell-permeable inhibitor of protein kinase Mζ (PKMζ), a constitutively active, atypical PKC isozyme involved in LTP maintenance. Selectively blocks PKMζ-induced synaptic potentiation in hippocampal slices in vitro. Reverses late-phase LTP (IC50 = 1 - 2.5 μM) and produces persistent loss of 1-day-old spatial memory following central administration in vivo.
Targets(IC50)	PKC

Solubility Information

Solubility	DMSO: Insoluble, H2O: 5 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5029 mL	2.5145 mL	5.0291 mL
5 mM	0.1006 mL	0.5029 mL	1.0058 mL
10 mM	0.0503 mL	0.2515 mL	0.5029 mL
50 mM	0.0101 mL	0.0503 mL	0.1006 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

Serrano et al (2005) Persistent phosphorylation by protein kinase Mz maintains late-phase long-term potentiation. J.Neurosci. 25 1979 PMID:

Pastalkova et al (2006) Storage of spatial information by the maintenance mechanism of LTP. Science 313 1141 PMID:

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