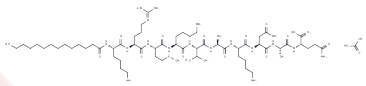
Data Sheet (Cat.No.TP1945L1)

TargetMol

Pep2m, myristoylated acetate

Chemical Properties



CAS No. :

Formula: C65H122N18O16S

Molecular Weight: 1443.96

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	Pep2m, myristoylated acetate is a Cell-permeable, myristoylated form of pep2m. Peptide inhibitor of the interaction between the C-terminus of the GluA2 (AMPA receptor) subunit and N-ethylmaleimide-sensitive fusion protein (NSF), a protein that regulates AMPA receptor function. Reduces postsynaptic currents in CA1 neurons, AMPA-mediated currents in cultured hippocampal neurons and AMPA receptor surface expression.
Targets(IC50)	PKC

Solubility Information

Solubility	H2O: Insoluble, DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6925 mL	3.4627 mL	6.9254 mL
5 mM	0.1385 mL	0.6925 mL	1.3851 mL
10 mM	0.0693 mL	0.3463 mL	0.6925 mL
50 mM	0.0139 mL	0.0693 mL	0.1385 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

Nishimune et al (1998) NSF binding to GluR2 regulates synaptic transmission. Neuron 21 87 PMID: 9697854
Noel et al (1999) Surface expression of AMPA receptors in hippocampal neurons is regulated by an NSF-dependent mechanism. Neuron 23 365 PMID: 10399941
Luthi et al (1999) Hippocampal LTD expression involves a pool of AMPARs regulated by the NSF-GluR2 interaction. Neuron 24 389 PMID: 10571232
Luscher et al (1999) Role of AMPA receptor cycling in synaptic transmission and plasticity. Neuron 24 649 PMID: 10595516
Yao et al (2008) PKMz maintains late long-term potentiation by N-ethylmaleimide-sensitive factor/GluR2-dependent trafficking of postsynaptic AMPA receptors. J.Neurosci. 28 7820 PMID: 18667614