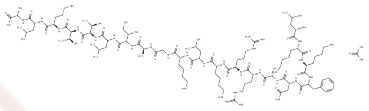
Data Sheet (Cat.No.TP1271L)

TargetMol

Calmodulin-Dependent Protein Kinase II 290-309 acetate

Chemical Properties



CAS No. :

Formula: C105H189N31O26S

Molecular Weight: 2333.88

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	Calmodulin-Dependent Protein Kinase II 290-309 acetate is an effective antagonist of Ca2+/calmodulin-dependent protein kinase II (IC50 = 52 nM).
Targets(IC50)	CaMK
In vitro	Neither truncation from the amino terminus (peptide 296-309) nor extension in the carboxyl-terminal direction (peptide 294-319) markedly affects calmodulin binding, whereas shortening the peptide from the carboxyl terminus (peptide 290-302) or from both ends (peptide 295-304) results in the elimination of this activity[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4285 mL	2.1424 mL	4.2847 mL
5 mM	0.0857 mL	0.4285 mL	0.8569 mL
10 mM	0.0428 mL	0.2142 mL	0.4285 mL
50 mM	0.0086 mL	0.0428 mL	0.0857 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

Payne ME, et al. Calcium/calmodulin-dependent protein kinase II. Characterization of distinct calmodulin binding and inhibitory domains. J Biol Chem. 1988 May 25;263(15):7190-5.

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