

## Calmodulin-Dependent Protein Kinase II(290-309)

## Chemical Properties

CAS No.:	115044-69-4
Formula:	C103H185N31O24S
Molecular Weight:	2273.83
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Calmodulin-Dependent Protein Kinase II (290-309) is a potent CaMK antagonist with an IC <sub>50</sub> of 52 nM for inhibition of Ca <sup>2+</sup> /calmodulin-dependent protein kinase II.
Targets(IC <sub>50</sub> )	calmodulin-dependent protein kinase II: 52 nM
In vitro	Peptide 290 to 309 is found to be a potent calmodulin antagonist with an IC <sub>50</sub> of 52 nM for inhibition of Ca <sup>2+</sup> /calmodulin-dependent protein kinase. 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].

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.44 mL	2.199 mL	4.398 mL
5 mM	0.088 mL	0.44 mL	0.88 mL
10 mM	0.044 mL	0.22 mL	0.44 mL
50 mM	0.009 mL	0.044 mL	0.088 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. 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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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481