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

Cat. No.:	HY-P1479A
Molecular Formula:	$C_{105}H_{189}N_{31}O_{26}S$
Molecular Weight:	2333.88
Sequence Shortening:	LKKFNARRKLKGAILTTMLA
Target:	Autophagy; CaMK
Pathway:	Autophagy; Neuronal Signaling
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

BIOLOGICAL ACTIVITY

Description	Calmodulin-Dependent Protein Kinase II (290-309) acetate is a potent CaMK antagonist with an IC_{50} of 52 nM for inhibition of Ca2+/calmodulin-dependent protein kinase II[1].
IC_{50} & Target	IC50: 52 nM (calmodulin-dependent protein kinase II)[1].
In Vitro	Peptide 290 to 309 is found to be a potent calmodulin antagonist with an IC_{50} of 52 nM for inhibition of Ca2+/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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA