Protein Kinase C (19-35) Peptide

Cat. No.:	HY-P3892
CAS No.:	309247-48-1
Molecular Formula:	$C_{89}H_{153}N_{33}O_{22}$
Molecular Weight:	2037.4
Sequence Shortening:	RFARKGALRQKNVHEVK
Target:	PKC
Pathway:	Epigenetics; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Protein Kinase C (19-35) Peptide is the PKC pseudosubstrate inhibitor/region. Protein Kinase C (19-35) Peptide possibly blocks the substrate-binding site in its kinase domain, makes the cytoplasmic form of PKC inactive[1][2].
In Vitro	Amino acids equivalent to residues 19-36 and 19-29 of PKC-β can bound to phospholipid vesicles[2]. Atypical zeta protein kinase C in the signaling pathway leading to chemoattractant-triggered actin assembly, integrin-dependent adhesion of blood leukocytes to vascular endothelium[3]. Synthetic myristoylated peptides with Protein Kinase C (19-35) Peptide, the endogenous zeta protein kinase C pseudosubstrate region, block agonist-induced adhesion to fibrinogen, chemotaxis and F-actin accumulation[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Steiner J, et al. The effect of acute ethanol (EtOH) exposure on protein kinase C (PKC) activity in anterior pituitary. Alcohol. 1997 May-Jun;14(3):209-11.

[2]. Mosior M, et al. Peptides that mimic the pseudosubstrate region of protein kinase C bind to acidic lipids in membranes. Biophys J. 1991 Jul;60(1):149-59.

[3]. Laudanna C, et al. Evidence of zeta protein kinase C involvement in polymorphonuclear neutrophil integrin-dependent adhesion and chemotaxis. J Biol Chem. 1998 Nov 13;273(46):30306-15.

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