
Product Data Sheet

Product Name: [Ser25] Protein Kinase C (19-31)
 Cat. No.: GP10017

Chemical Properties

Cas. No. 136795-05-6

Chemical Name [Ser25] Protein Kinase C (19-31)

SMILES CC(C)CC(C(=O)NC(CCCN=C(N)N)C(=O)NC(CCC(=O)N)C(=O)NC(CCCCN)C(=O)NC(CC(=O)N)C(=O)NC(C(C)C)C(=O)O)NC(=O)C(CO)N

Formula $C_{67}H_{118}N_{26}O_{17}$ M.Wt

Solubility $\geq 155.9\text{mg/mL}$ in DMSO Storage

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure [Ser25] Protein Kinase C (19-31)

Background

Protein Kinase C (19-31), (C67H118N26O17), a peptide with the sequence H-ARG-PHE-ALA-ARG-LYS-GLY-SER-LEU-ARG-GLN-LYS-ASN-VAL-OH, MW= 1559.82. this peptide derived from the pseudo-substrate regulatory domain of PKCa (residues 19-31) with a serine at position 25 replacing the wild-type alanine, it was used as protein kinase C substrate peptide for testing the protein kinase C activity.

Protein kinase C also known as PKC, is a family of protein kinase enzymes that are involved in controlling the function of other proteins through the phosphorylation of hydroxyl groups of serine and threonine amino acid residues on these proteins. PKCa has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control.

Knockout studies in mice suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca^{2+} handling in myocytes.

References:

1. Mellor H, Parker PJ (1998). "The extended protein kinase C superfamily". *Biochem. J.* 332 (Pt 2): 281-92
2. Nishizuka Y (1995). "Protein kinase C and lipid signaling for sustained cellular responses" (abstract). *FASEB J.* 9 (7): 484-96.
3. Vicente Micol. Correlation between Protein Kinase C an Activity and Membrane Phase Behavior. Departamento de Bioqu??mica y Biolog??a Molecular

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

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