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PKC-a Human

Catalog #:PKPS-225

For research use only.

Description: Protein Kinase C alpha Human Recombinant produced in Sf9 is a glycosylated, polypeptide chain containing amino acids 2-672 and having a molecular mass of 76.7 KD. This protein is the full-length form of the protein with an amino terminal poly His-tag.PKC-a is purified by proprietary chromatographic techniques.

Synonyms: Protein kinase C alpha type, EC 2.7.11.13, PKC-alpha, PKC-A, PRKCA, AAG6, PKCA, PRKACA, MGC129900, MGC129901.

Source: Sf9 insect cells.

Amino Acid Sequence:MADVYPGNDS TASQDVANRF ARKGALRQKN VHEVKDHKFI ARFFKQPTFC SHCTDFIWGF GKQGFQCQVC CFVVHKRCHE FVTFSCPGAD KGPDTDDPRS KHKFKIHTYG SPTFCDHCGS LLYGLIHQGM KCDTCDMNVH KQCVINVPSL CGMDHTEKRG RIYLKAEVAD EKLHVTVRDA KNLIPMDPNG LSDPYVKLKL IPDPKNESKQ KTKTIRSTLN PQWNESFTFK LK

Purity: Greater than 95% as determined by SDS-PAGE.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks.Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. This kinase 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 sµggest that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes.

Storage:
PKC-a is supplied at a of 0.37mg/ml in 20mM HEPES pH 7.5, 250mM NaCl, 50% glycerol, 2mM EDTA,2mM EGTA, 0.05%Triton X-100 and 5mM DTT.

To place an order, please Click HERE.

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