
Product Data Sheet

Product Name: PKC-a Human

Cat. No.: GP22594

Batch No.: 1

Product Data

Purity >98%

Source Sf9 insect cells.

Physical
Appearance

solid

Shipping
Condition Shipped with Ice Packs.

Synonyms

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

Amino Acid
Sequence

MADVYPGNDS TASQDVANRF ARKGALRQKN VHEVKDHKFI ARFFKQPTFC
 SHCTDFIWGF GKQGFQCQVC CFVVKRCHE FVTFSCPGAD KGPDTDDPRS
 KHKFKIHTYG SPTFCDHCGS LLYGLIHQGM KCDTCDMNVH KQCVINVPSL
 CGMDHTEKRG RIYLKAEVAD EKLHVTVRDA KNLIPMDPNG LSDPYVKLKL
 IPDPKNESKQ KTKTIRSTLN PQWNESFTFK LKPSDKDRRL SVEIWDWDR
 TRNDFMGSL S FGVSELMKMP ASGWYKLLNQ EGEYYNVPI PEGDEEGNME
 LRQKFEKAKL GPAGNKVISP SEDRKQPSNN LDRVKLDFN FLMVLGKGSF
 GKVMLADRKG TEELYAIKIL KKDVIQDDD VECTMVEKRV LALLDKPPFL
 TQLHSCFQTV DRLYFVMEYV NGGDLMYHIQ QVGKFKEPQA VFYAAEISIG
 LFFLHKRGII YRDLKLDNVM LDSEGHKIA DFGMCKEHMM DGVTRTRFCG
 TPDYIAPEII AYQPYGKSVD WWAYGVLLYE MLAGQPPFDG EDEDELQSI
 MEHNVSYPKS LSKEAVSICK GLMTKHPAKR LGCGPEGERD VREHAFFRGI
 DWEKLENREI QPPFKPKVCG KGAENFDKFF TRGQPVLTPP DQLVIANIDQ
 SDFEGFSYVN PQFVHPILQS AV.

Formulation

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

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

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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 suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes.

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.

Background

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.

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