



Product Datasheet

Product Name	Protein Kinase C alpha Human Recombinant
Cata No	CB500825
Source	<i>Sf9 insect cells.</i>
Synonyms	Protein kinase C alpha type, EC 2.7.11.13, PKC-alpha, PKC-A, PRKCA, AAG6, PKCA, PRKACA, MGC129900, MGC129901.

Description

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 suggest that this kinase may be a fundamental regulator of cardiac contractility and

Ca(2+) handling in myocytes.

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 80 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.

Purity

Greater than 95% as determined by SDS-PAGE.

Formulation

PKC-a is supplied at a of 0.3mg/ml in 50mM Tris, pH 7.4, 0.1M NaCl, 20% glycerol, 1mM DTT, 0.1mM EDTA, 0.2mM PMSF and 0.03% Brij-35.

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