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Recombinant Human Protein Kinase C-gamma (PKC- γ)

CLPKA320
CLPKA320-2
CLPKA320-3
Lot:

Introduction: Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and 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 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 distinct roles in cells. The protein encoded by this gene is one of the PKC family members. This protein kinase is expressed solely in the brain and spinal cord and its localization is restricted to neurons. It has been demonstrated that several neuronal functions, including long term potentiation (LTP) and long term depression (LTD), specifically require this kinase. Knockout studies in mice also suggest that this kinase may be involved in neuropathic pain development. Defects in this protein have been associated with neurodegenerative disorder spinocerebellar ataxia-14 (SCA14).

Description: Recombinant Human PKC-g produced in Sf9 is a glycosylated, polypeptide chain containing amino acids 2-676 and having a molecular mass of 80 kDa. This protein is the full-length form of the protein with an amino terminal poly His-tag.

PKC-g is purified by proprietary chromatographic techniques.

Synonyms: Protein kinase C gamma type, EC 2.7.11.13, PKC-gamma, PRKCG, PKCC, PKCG, SCA14, MGC57564.

Source: Sf9 insect cells.

Presentation: 2 μ g (CLPKA320), 10 μ g (CLPKA320-2), or 1 mg (CLPKA320-3), sterile filtered clear solution. PKC-g is supplied at a of 0.1 mg/ml in 10 mM Tris, pH 7.4, 0.1 M NaCl, 20% glycerol, 1 mM DTT, 0.1 mM EDTA, 0.2 mM PMSF and 0.03% Brij-35.

Unit Definition: 6000-8000 units/mg. One unit of PKC-g activity transfers 1 nmole of phosphate to a PKC substrate peptide (myelin basic protein 4-14) per minute at 30°C. Recombinant human active PKC-g also phosphorylates full length myelin basic protein, histone, MARKS, and GSK-3b. Activity requires incubation with lipid activators, and may vary depending on the substrate and reaction conditions.

Storage Conditions: 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.

Purity: Greater than 90% as determined by SDS-PAGE.

Laboratory Reagent For Research Use Only

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