

Active Recombinant Human PRKCH protein, GST/His-tagged

Cat. No. PRKCH-19H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human PRKCH (amino acids M1-P683) fused with GST/HIS tag at N-terminal with a Thrombin cleavage site was expressed in Baculovirus infected Sf9 cells.

Species Human

Source Insect Cells

ProteinLength 1-683 a.a.

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. It is a calcium-independent and phospholipids-dependent protein kinase. It is predominantly expressed in epithelial tissues and has been shown to reside specifically in the cell nucleus. This protein kinase can regulate keratinocyte differentiation by activating the MAP kinase MAPK13 (p38delta)-activated protein kinase cascade that targets CCAAT/enhancer-binding protein alpha (CEBPA). It is also found to mediate the transcription activation of the transglutaminase 1 (TGM1) gene.

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Form	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol
Bio-activity	71 pmol/g×min
Molecular Mass	107,425 Da
Storage	Storage at -80 centigrade, Avoid repeated freeze-thaw cycles.
Concentration	0.117 g/μ

GENE INFORMATION

Gene Name	PRKCH protein kinase C, eta [Homo sapiens]
Official Symbol	PRKCH
Synonyms	PKCL; PKC-L; PRKCL; nPKC-eta; protein kinase C eta type
Gene ID	5583
mRNA Refseq	NM_006255
Protein Refseq	NP_006246
MIM	605437
UniProt ID	P24723
Chromosome Location	14q23.1

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Pathway	Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Effects of PIP2 hydrolysis, organism-specific biosystem; Endothelins, organism-specific biosystem
Function	ATP binding; Ral GTPase binding; calcium-independent protein kinase C activity

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