

Recombinant Human PRKCH protein, His-tagged

Cat. No. PRKCH-18H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRKCH (Phe355~Phe614) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	355-614 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.
Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.

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Molecular Mass	31.2kDa
AA Sequence	MGHHHHHSGSEF- FEFIRV LGKGSFGKVM LARVKETGDL YAVKVLKKDV ILQDDDVECT MTEKRILSLA RNHPFLTQLF CCFQTPDRLF FVMEFVNGGD LMFHIQKSRR FDEARARFYA AEIISALMFL HDKGIIYRDL KLDNVLLDHE GHCKLADFGM CKEGICNGVT TATFCGTPDY IAPEILQEML YGPAVDWWAM GVLLYEMLCG HAPFEAENED DLFEAILNDE VVYPTWLHED ATGILKSFMT KNPTMRLGSL TQGGEHAILR HPFF
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Applications	SDS-PAGE; WB; ELISA; IP.
Usage	FOR IN VITRO AND RESEARCH USE ONLY, NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

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

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Gene ID	5583
mRNA Refseq	NM_006255
Protein Refseq	NP_006246
MIM	605437
UniProt ID	P24723
Chromosome Location	14q23.1
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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