

## Recombinant Human PRKCH protein, His-tagged

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

### SPECIFICATION

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

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

## GENE INFORMATION

<b>Gene Name</b>	PRKCH protein kinase C, eta [ Homo sapiens ]
<b>Official Symbol</b>	PRKCH
<b>Synonyms</b>	PKCL; PKC-L; PRKCL; nPKC-eta; protein kinase C eta type

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<b>Gene ID</b>	5583
<b>mRNA Refseq</b>	NM_006255
<b>Protein Refseq</b>	NP_006246
<b>MIM</b>	605437
<b>UniProt ID</b>	P24723
<b>Chromosome Location</b>	14q23.1
<b>Pathway</b>	Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Effects of PIP2 hydrolysis, organism-specific biosystem; Endothelins, organism-specific biosystem
<b>Function</b>	ATP binding; Ral GTPase binding; calcium-independent protein kinase C activity

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