



# Recombinant Human Protein kinase C eta type (PRKCH)

<b>Product Code</b>	CSB-EP018706HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P24723
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MSSGTMKFNG YLRVRIGEAV GLQPTRWSLR HSLFKKGHQL LDPYLTVSVD QVRVGQTSTK QKTNKPTYNE EFCANVTDGG HLELAVFHET PLGYDHFVAN CTLQFQELLR TTGASDTFEG WVDLEPEGKV FVVITLTGSF TEATLQRDRI FKHFTRKRQR AMRRRVHQIN GHKFMATYLR QPTYCSHCRE FIWGVFGKQG YQCQVCTCVV HKRCHHLIVT ACTCQNNINK VDSKIAEQRF GINIPHKFSI HNYKVPTFCD HCGSLLWGIM RQGLQCKICK MNVHIRCQAN VAPNCGVNAV ELAKTLAGMG LQPGNISPTS KLVSRSTLRR QGKESSEGEN GIGVNSSNRL GIDNFEFIRV LGKGSFGKVM LARVKETGDL YAVKVLKGDV ILQDDDVECT MTEKRILSLA RNHPFLTQLF CCFQTPDRLF FVMEFVNGGD LMFHIQKSRR FDEARARFYA AEIISALMFL HDKGIIYRDL KLDNVLLDHE GHCKLADFGM CKEGICNGVT TATFCGTPDY IAPEILQEML YGPAVDWWAM GVLLYEMLCG HAPFEAENED DLFEAILNDE VVYPTWLHED ATGILKSFMT KNPTMRLGSL TQGGEHAILR HPFFKEIDWA QLNHRQIEPP FRPRIKSRED VSNFDPDFIK EEPVLTPIDE GHLPMINQDE FRNFSYVSPE LQP
<b>Source</b>	E.coli
<b>Target Names</b>	PRKCH
<b>Protein Names</b>	Recommended name: Protein kinase C eta type EC= 2.7.11.13 Alternative name(s): PKC-L nPKC-eta
<b>Expression Region</b>	1-683
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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. This protein 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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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.