

## Active Recombinant Human PRKCH

Cat. No. PRKCH-8457H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The Human PRKCH was expressed in Sf9 Cells
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	PKC eta is a member of the protein kinase C (PKC) family of serine- and threonine-specific protein kinases that can phosphorylate a wide variety of protein targets known to be involved in diverse cellular signaling pathways. PKC $\eta$ is predominantly expressed in squamous cell epithelia and induces terminal differentiation of keratinocytes. PKC $\eta$ that is endogenously expressed or overexpressed is found to associate with the cyclin E/cdk2/p21 complex in keratinocytes of mice and humans.
<b>Form</b>	Recombinant protein in storage buffer (50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).
<b>Bio-activity</b>	86 nmol phosphate incorporated into peptide substrate (ERM <sub>R</sub> PRKRQGSVRRRV) per minute per mg protein at 30°C for 15 minutes using a final concentration of 50 $\mu$ M ATP (0.83 $\mu$ Ci/assay).
<b>Molecular Mass</b>	103.0 kDa
<b>Purity</b>	$\geq$ 90% by SDS - PAGE
<b>Storage</b>	Store product frozen at or below -

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70°C. Stable for 1 year at -70°C as undiluted stock. Aliquot to avoid repeated thawing and freezing.

**Shipping** dry ice

## GENE INFORMATION

**Gene Name** PRKCH protein kinase C, eta [ Homo sapiens ]

**Official Symbol** PRKCH?

**Synonyms** PRKCH; protein kinase C, eta; PRKCL; protein kinase C eta type; PKC L; PKCL; PKC-L; nPKC-eta; MGC5363; MGC26269;

**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; G Protein Signaling Pathways, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; G alpha (z) signalling events, organism-specific

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biosystem; GPCR downstream signaling, organism-specific biosystem;

**Function**

ATP binding; enzyme binding; metal ion binding; nucleotide binding; protein kinase C activity;

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