

Active Recombinant Human PRKCH

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

SPECIFICATION

Product Overview	The Human PRKCH was expressed in Sf9 Cells
Species	Human
Source	Sf9 Cells
Description	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 η is predominantly expressed in squamous cell epithelia and induces terminal differentiation of keratinocytes. PKC η that is endogenously expressed or overexpressed is found to associate with the cyclin E/cdk2/p21 complex in keratinocytes of mice and humans.
Form	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).
Bio-activity	86 nmol phosphate incorporated into peptide substrate (ERM RPRKRQGSVRRRV) per minute per mg protein at 30°C for 15 minutes using a final concentration of 50 μM ATP (0.83 $\mu\text{Ci/assay}$).
Molecular Mass	103.0 kDa
Purity	$\geq 90\%$ by SDS - PAGE
Storage	Store product frozen at or below -

 Tel: 1-631-559-9269 1-516-512-3133

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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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