

Recombinant Human PRKCE

Cat. No. PRKCE-28939TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length PKC epsilon protein (Human), was expressed by baculovirus in Sf9 insect cells using a N-terminal tag, MW 110kDa.
Species	Human
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. This kinase has been shown to be involved in many different cellular functions, such as neuron channel activation, apoptosis, cardioprotection from ischemia, heat shock response, as well as insulin exocytosis. Knockout studies in mice suggest that this kinase is important for lipopolysaccharide (LPS)-mediated signaling in activated macrophages and may also play a role in controlling anxiety-like behavior.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 0.1M PMSF, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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	cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 C2 domain. Contains 2 phorbol-ester/DAG-type zinc fingers. Contains 1 protein kinase domain.
Full Length	Full L.
GENE INFORMATION	
Gene Name	PRKCE protein kinase C, epsilon [Homo sapiens]
Official Symbol	PRKCE
Synonyms	PRKCE; protein kinase C, epsilon; protein kinase C epsilon type;
Gene ID	5581
mRNA Refseq	NM_005400
Protein Refseq	NP_005391
MIM	176975
Uniprot ID	Q02156
Chromosome Location	2p21
Pathway	B Cell Receptor Signaling Pathway, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; DAG and IP3 signaling, organism-specific biosystem;

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Downstream signal transduction, organism-specific biosystem;

Function

ATP binding; SH3 domain binding; calcium-independent protein kinase C activity;
enzyme activator activity; enzyme binding;

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