Recombinant Human PRKCE

Cat. No. PRKCE-63H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRKCE (Gln580-Pro737) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	580-737 a.a.
Description	Protein Kinase C Epsilon type is a member of the serine- and threonine-specific protein kinase family that can be activated by calcium and the second messenger diacylglycerol. Protein Kinase C Epsilon contains these domains: one AGC-kinase C-terminal domain, one C2 domain, one protein kinase domain and two phorbol-ester/DAG-type zinc fingers. Protein Kinase C Epsilon phosphorylate a variety of protein targets and has been identified to participate in diverse cellular signaling pathways. It has many different cellular functions, such as neuron channel activation, apoptosis, cardioprotection from ischemia, heat shock response, as well as insulin exocytosis. Protein Kinase C Epsilon also serves as the receptor for phorbol esters, a class of tumor promoters.
Form	Supplied as a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 1mM DTT, pH 7.4
AA Sequence	MQELEYGPSVDWWALGVLMYEMMAGQPPFEADNEDDLFESILHDDVLYPVWLSKE AVSILKAFMT KNPHKRLGCVASQNGEDAIKQHPFFKEIDWVLLEQKKIKPPFKPRIKT KRDVNNFDQDFTREEPV LTLVDEAIVKQINQEEFKGFSYFGEDLMPLEHHHHHH

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Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Store at < -20 centigrade, stable for 6 months after receipt.Please minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	PRKCE protein kinase C, epsilon [Homo sapiens]
Official Symbol	PRKCE
Synonyms	PKCE; nPKC-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; DAP12 interactions, organism-specific biosystem

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Function	14-3-3 protein binding; ATP binding; actin monomer binding

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