

Recombinant Full Length Human PRKCE Protein, C-Flag-tagged

Cat. No. PRKCE-728HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PRKCE Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	83.5 kDa

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AA Sequence

MVVFNGLLKIKICEAVSLKPTAWSLRHAVGPRPQTFLDPYIALNVDDSRIGQTATKQ
 KTNSPAWHDEFV TDVCNGRKIELAVFHDAPIGYDDFVANCTIQFEELLQNGSRHFE
 DWIDLEPEGRVYVIIDLSGSSGEAPK DNEERVFRERMRPRKRQGAVRRRVHQVNG
 HKFMATYLRQPTYCSHCRDFIWGVIGKQGYQCQVCTCVVHK RCHELIITKCAGLKK
 QETPDQVGSQRFSVNMPHKFGIHNYKVPTFCDHCGSLLWGLLRQGLQCKVCKMNV
 HRR CETNVAPNCGVDARGIAKVLADLGVTDPKITNSGQRRKKLIAGAESPQPASGSS
 PSEEDRSKSAPTS PCDQEIKELENNIRKALSFDNRGEEHRAASSPDGQLMSPGENG
 EVRQGQAKRLGLDEFNFIKVLGKGSFG KVMLAELKGKDEVYAVKVLKKDVILQDDD
 VDCTMTEKRILALARKHPYLTQLYCCFQTKDRLFFVMEYVN GGDLMFQIQRSRKFD
 EPRSRFYAAEVTSALMFLHQHGVYIRD LKLDNILLDAEGHCKLADFGMCKEGILN GV
 TTTTFCGTPDYIAPEILQELEYGPSVDWWALGVLMYEMMAGQPPFEADNEDDLFESI
 LHDDVLYPVWL SKEAVSILKAFMTKNPHKRLGCVASQNGEDA IKQHPFFKEIDWVLL
 EQKKIKPPFKPRIKTKRDVNNFDQ
 DFTREEPVLT LVDEAIVKQINQEEFKGFSYFGEDLMPTRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining.

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families

Druggable Genome, Protein Kinase

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Protein Pathways Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Tight junction, Type II diabetes mellitus, Vascular smooth muscle contraction

Full Length Full L.

GENE INFORMATION

Gene Name PRKCE protein kinase C epsilon [Homo sapiens (human)]

Official Symbol PRKCE

Synonyms PKCE; nPKC-epsilon

Gene ID 5581

mRNA Refseq NM_005400.3

Protein Refseq NP_005391.1

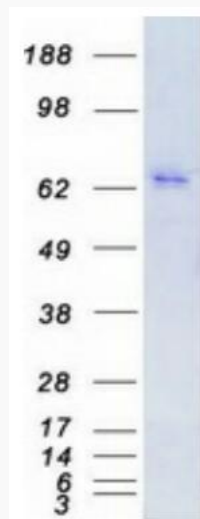
MIM 176975

UniProt ID Q02156

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Coomassie blue staining of purified PRKCE protein.

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