

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

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

### SPECIFICATION

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

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**AA Sequence**

MVVFNGLLKIKICEAVSLKPTAWSLRHAVGPRPQTFLDPYIALNVDDSRIGQTATKQ  
 KTNSPAWHDEFV TDVCNGRKIELAVFHDAPIGYDDFVANCTIQFEELLQNGSRHFE  
 DWIDLEPEGRVYVIIDLSGSSGEAPK DNEERVFRERMRPRKRQGAVRRRVHQVNG  
 HKFMATYLRQPTYCSHCRDFIWGVIGKQGYQCQVCTCVVHK RCHELIITKCAGLKK  
 QETPDQVGSQRFSVNMPHKFGIHNYKVPTFCDHCGSLLWGLLRQGLQCKVCKMNV  
 HRR CETNVAPNCGVDARGIAKVLADLGVTDPKITNSGQRRKKLIAGAESPQPASGSS  
 PSEEDRSKSAPTS PCDQEIKELENNIRKALSFDNRGEEHRAASSPDGQLMSPGENG  
 EVRQGQAKRLGLDEFNFIVLKGKGSFG KVMLAELKGKDEVYAVKVLKKDVILQDDD  
 VDCTMTEKRILALARKHPYLTQLYCCFQTKDRLFFVMEYVN GGDLMFQIQRSRKFD  
 EPRSRFYAAEVTSALMFLHQHGVYRDLKLDNILLDAEGHCKLADFGMCKEGILN GV  
 TTTTFCGTPDYIAPEILQELEYGPSVDWWALGVLMYEMMAGQPPFEADNEDDLFESI  
 LHDDVLYPVWL SKEAVSILKAFMTKNPHKRLGCVASQNGEDAIAKQHPFFKEIDWVLL  
 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

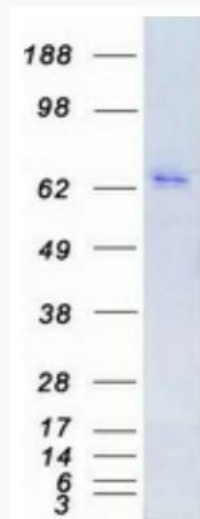
**MIM** 176975

**UniProt ID** Q02156

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Coomassie blue staining of purified PRKCE protein.