

# Recombinant Human Protein Kinase C, Epsilon, GST-tagged, Active

Cat. No. PRKCE-402H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Recombinant human full-length PKCepsilon was expressed by baculovirus in Sf9 cell using an N-terminal GST tag. MW=110 kDa.

### Species

Human

### Source

Sf9 Cells

### Description

PKCε 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. PKCε is involved in many different cellular functions, such as neuron channel activation, 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 control anxiety-like behavior.

### Sequence

Full-length.

### Applications

Kinase Assay, Western Blot.

### Storage And Stability

Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

## GENE INFORMATION

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<b>Gene Name</b>	PRKCE protein kinase C, epsilon [ Homo sapiens ]
<b>Synonyms</b>	PRKCE; protein kinase C, epsilon; PKCE; MGC125656; MGC125657; nPKC-epsilon; Protein kinase C epsilon type; EC 2.7.11.13
<b>Gene ID</b>	5581
<b>mRNA Refseq</b>	NM_005400
<b>Protein Refseq</b>	NP_005391
<b>UniProt ID</b>	Q02156
<b>Chromosome Location</b>	2p21
<b>MIM</b>	176975
<b>Pathway</b>	Fc epsilon RI signaling pathway; Fc gamma R-mediated phagocytosis; Tight junction; Type II diabetes mellitus; Vascular smooth muscle contraction; Signalling by NGF
<b>Function</b>	ATP binding; calcium-independent protein kinase C activity; enzyme binding; metal ion binding; signal transducer activity; nucleotide binding; transferase activity; zinc ion binding

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