

Active Recombinant Full Length Human Protein Kinase C, Alpha, GST-tagged, Active

Cat. No. PRKCA-398H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human full-length PKCalpha was expressed by baculovirus in <i>Sf9 insect cell</i> using an N-terminal GST tag. MW=103 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	1-672 a.a.
Description	PKCα is a member of the protein kinase C (PKC) family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC-alpha has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control. PKCα has been assigned to the chromosome region 17q22-q23.2 and has been identified as a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes.
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.

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Bio-activity 3333 nmol/min/mg

GENE INFORMATION

Gene Name PRKCA protein kinase C, alpha [Homo sapiens]

Synonyms PRKCA; protein kinase C, alpha; AAG6; PKCA; PRKACA; MGC129900; MGC129901; PKC-alpha; EC 2.7.11. 13; Protein kinase C alpha type; aging-associated gene 6; protein kinase C alpha type

Gene ID 5578

mRNA Refseq NM_002737

Protein Refseq NP_002728

UniProt ID P17252

Chromosome Location 17q22-q24

MIM 176960

Pathway Calcium signaling pathway; ErbB signaling pathway; Fc epsilon RI signaling pathway; Fc gamma R-mediated phagocytosis; Focal adhesion; Glioma; GnRH signaling pathway; Leukocyte transendothelial migration; Long-term potentiation; Long-term depression; MAPK signaling pathway; Melanogenesis; Natural killer cell mediated cytotoxicity; Non-small cell lung cancer; Pathogenic Escherichia coli infection - EHEC; Pathways in cancer; Phosphatidylinositol signaling system; Tight junction; VEGF signaling pathway; Vascular smooth muscle contraction; Vibrio cholerae infection; Wnt signaling pathway; Diabetes pathways; Hemostasis; Synaptic Transmission

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Function

ATP binding; calcium ion binding; calcium-dependent protein kinase C activity; nucleotide binding; protein binding; transferase activity; zinc ion binding

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