

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

Cat. No. PRKCG-404H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human full-length PKCgamma was expressed by baculovirus in <i>Sf9</i> cell/s using an N-terminal GST tag. MW=105 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	1-697 a.a.
Description	PKCγ 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. In the brain, PKCγ is translocated to cell membranes during ischemia and is rapidly removed or degraded during the second otherwise lethal ischemic insult in preconditioned brains. This suggest that ischemic preconditioning enhances downregulation of cell signaling mediated by PKCγ and may thereby provide neuroprotection.
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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GENE INFORMATION

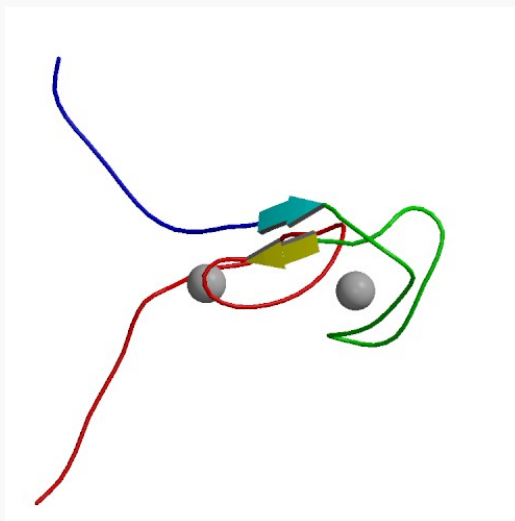
Gene Name	PRKCG protein kinase C, gamma [Homo sapiens]
Synonyms	PRKCG; protein kinase C, gamma; PKCG; SCA14; MGC57564; PKC-gamma; Protein kinase C gamma type; EC 2.7.11.13
Gene ID	5582
mRNA Refseq	NM_002739
Protein Refseq	NP_002730
UniProt ID	P05129
Chromosome Location	19q13.4
MIM	176980
Pathway	Calcium signaling pathway; ErbB signaling pathway; Fc gamma R-mediated phagocytosis; Focal adhesion; Gap junction; Glioma; Leukocyte transendothelial migration; Long-term depression; Long-term potentiation; MAPK signaling pathway; Melanogenesis; Natural killer cell mediated cytotoxicity; Non-small cell lung cancer; Non-small cell lung cancer; Phosphatidylinositol signaling system; Tight junction; Vascular smooth muscle contraction; Vibrio cholerae infection; Wnt signaling pathway; Synaptic Transmission; Hemostasis
Function	ATP binding; calcium ion binding; nucleotide binding; protein kinase C activity; transferase activity; zinc ion binding

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