

Recombinant Full length Human Protein Kinase C, Delta, GST-tagged, Active

Cat. No. PRKCD-401H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human full-length PKCdelta was expressed by baculovirus in *Sf9* cell using an N-terminal GST tag. MW=104 kDa.

Species

Human

Source

Sf9 Cells

ProteinLength

1-676 a.a.

Description

Protein kinase C delta (PKC δ) is a member of the protein kinase C (PKC) family of serine-threonine kinases. It is a 79 kd protein kinase that shows strict dependence on the presence of phospholipids, but shows no activation by Ca²⁺. Phosphatidylinositol is the most potent activator of PKC delta. Northern blot analysis indicated that PKCdelta is widely distributed in almost all the tissues and is a major isoform of PKC expressed in hemopoietic cells. PKCdelta is involved in fundamental cellular functions regulated by diacylglycerols and mimicked by phorbol esters.

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 350nmol/min/mg

GENE INFORMATION

Gene Name PRKCD protein kinase C, delta [Homo sapiens]

Synonyms PRKCD; protein kinase C, delta; MAY1; PKCD; MGC49908; nPKC-delta; Protein kinase C delta type; EC 2.7.11.13; protein kinase C delta VIII

Gene ID 5580

mRNA Refseq NM_006254

Protein Refseq NP_006245

UniProt ID Q05655

Chromosome Location 3p21.31

MIM 176977

Pathway Chemokine signaling pathway; Fc epsilon RI signaling pathway; Fc gamma R-mediated phagocytosis; GnRH signaling pathway; Neurotrophin signaling pathway; Tight junction; Type II diabetes mellitus; Vascular smooth muscle contraction; Apoptosis; Signalling by NGF

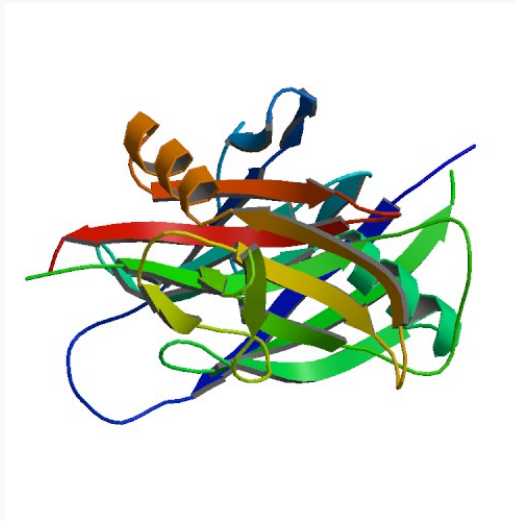
Function ATP binding; calcium-independent protein kinase C activity; enzyme activator activity; enzyme binding; insulin receptor substrate binding; metal ion binding; nucleotide binding; protein C-terminus binding; transferase activity; zinc ion binding

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