Recombinant Human PKC delta/PRKCD Kinase

Catalog No.: RP03413LQ

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Sequence Information

Species
Human

Gene ID
5580

Swiss Prot
Q05655

Tags
N-GST

Synonyms
PRKCD; PKCD; PKCδ; SDK1; Sphingosine-dependent protein kinase-1; nPKC-delta; Tyrosine-protein kinase PRKCD; Protein kinase C delta type

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 85% as determined by SDS-PAGE;≥ 85% as determined by HPLC.

Calculated MW
104.0 kDa

Observed MW
85-110 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 20% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Background

Protein kinase C delta type (or PKC-δ) is an enzyme that in humans is encoded by the PRKCD gene. Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by 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 distinct roles in cells. The protein encoded by this gene is one of the PKC family members. Studies both in human and mice demonstrate that this kinase is involved in B cell signaling and in the regulation of growth, apoptosis, and differentiation of a variety of cell types. Protein kinase C delta is also regulated by phosphorylation on various serine/threonine (e.g. T50, T141, S304, T451, T505, S506, T507, S643, S664) and tyrosine residues including Y311 (by SRC).

Basic Information

Description
Recombinant Human PKC delta/PRKCD Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ala2-Asp676) of Human PRKCD (Accession #Q05655) fused with a N-GST tag.

Activity
The activity of PRKCD is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

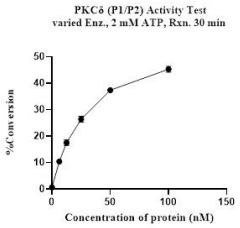
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

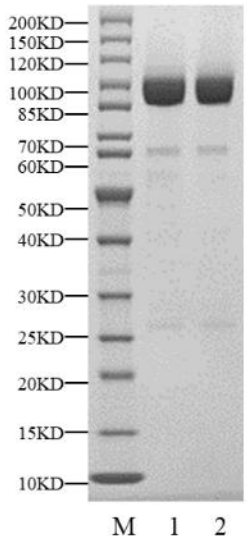
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Validation Data



The activity of PRKCD is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.



Recombinant Human PKC delta/PRKCD Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.

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