

Recombinant Human Protein Kinase C, Theta, GST-tagged, Active

PRKCQ-408H Human

Lot. No. (See product label)

Specification

Product Overview

Recombinant full-length human PRKCQ was expressed by baculovirus in *Sf9* insect cells using an N-terminal GST tag. MW=110 kDa.

Description

Protein Kinase C, theta (PKC θ) is an important component in the intracellular signaling cascade. Recent studies have suggested that local accumulation of fat metabolites inside skeletal muscle may activate a serine kinase cascade involving PKC-theta leading to defects in insulin signaling and glucose transport in skeletal muscle. Insulin resistance plays a primary role in the development of type 2 diabetes and may be related to alterations in fat metabolism. PKC-theta is a crucial component mediating fat-induced insulin resistance in skeletal muscle and is a potential therapeutic target for the treatment of type 2 diabetes.

Source

Sf9 insect cells using baculovirus.

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

Gene Name

[PRKCQ protein kinase C, theta \[Homo sapiens \]](#)

Synonyms

PRKCQ; protein kinase C, theta; PRKCT; MGC126514; MGC141919; nPKC-theta; Protein kinase C theta type; EC 2.7.11.13

Gene ID

[5588](#)

mRNA Refseq

[NM_006257](#)

Protein Refseq

[NP_006248](#)

MIM

[600448](#)

UniProt ID

[Q04759](#)

Chromosome Location

10p15

Pathway

Adipocytokine signaling pathway; T cell receptor signaling pathway; Tight junction; Vascular smooth muscle contraction; Apoptosis; Signaling in Immune system

Function

ATP binding; calcium ion binding; nucleotide binding; protein kinase C activity; transferase

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activity; zinc ion binding

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