

Recombinant Full Length Human PRKCQ Protein, GST tagged

Cat. No. PRKCQ-30178TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PKC theta was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-706 aa
Description	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and 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 a distinct role. The protein encoded by this gene is one of the PKC family members. It is a calcium-independent and phospholipid-dependent protein kinase. This kinase is important for T-cell activation. It is required for the activation of the transcription factors NF-kappaB and AP-1, and may link the T cell receptor (TCR) signaling complex to the activation of the transcription factors.
Purity	>90%
Stability	1 year at -70 centigrade from date of shipment.

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Storage	Store product at –70 centigrade. 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.
Storage Buffer	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.1 µg/µL
Shipping	Dry ice
Reference	1. Manicassamy, S. and Sun, Z. The critical role of protein kinase C-theta in Fas/Fas ligand-mediated apoptosis. J. Immunol. 2007;178(1):312-9. 2. Kim, J K. et al: PKC-theta knockout mice are protected from fat-induced insulin resistance. J. Clin. Invest. 2004;114(6):823-7

GENE INFORMATION

Gene Name	PRKCQ protein kinase C, theta [Homo sapiens]
Official Symbol	PRKCQ
Synonyms	PRKCQ; protein kinase C, theta; protein kinase C theta type; PRKCT; nPKC-theta; MGC126514; MGC141919
Gene ID	5588
mRNA Refseq	NM_006257
Protein Refseq	NP_006248

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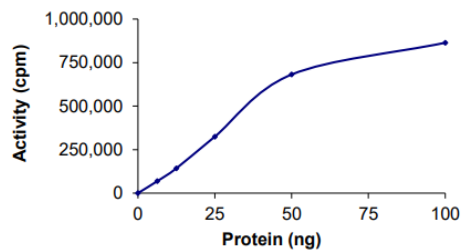
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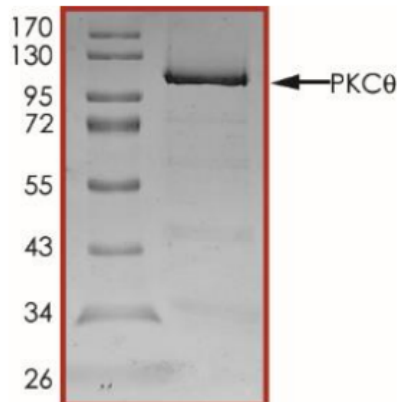
UniProt ID Q04759

Specific Activity



The specific activity of PKC theta was determined to be 900 nmol/min/mg as per activity assay protocol.

Purity



The purity of PKC theta was determined to be >90% by densitometry, approx. MW 110 kDa.

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