Recombinant Human PKC alpha/PRKCA Kinase

Catalog No.: RP03384LQ

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Sequence Information

Species
Human

Gene ID
5578

Swiss Prot
P17252

Tags
N-GST

Synonyms
PRKCA; PKCA; PRKACA; PKC-A; PKC-alpha; PKCα; Protein kinase C alpha type

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
103.3 kDa

Observed MW
75-110 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, 150 mM NaCl, 5% glycerol, 5 mM DTT, 0.1M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Background

Protein kinase C alpha (PKCα) is an enzyme that in humans is encoded by the PRKCA gene. 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. Protein kinase C-alpha (PKC-α) is a specific member of the protein kinase family. These enzymes are characterized by their ability to add a phosphate group to other proteins, thus changing their function. PKC-α has been widely studied in the tissues of many organisms including drosophila, xenopus, cow, dog, chicken, human, monkey, mouse, pig, and rabbit. Many studies are currently being conducted investigating the structure, function, and regulation of this enzyme. The most recent investigations concerning this enzyme include its general regulation, hepatic function, and cardiac function.

Basic Information

Description
Recombinant Human PKC alpha/PRKCA Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ala2-Val672) of Human PRKCA (Accession #P17252) fused with a N-GST tag.

Activity
The activity of PKCα is based on the ADP-GLO kinase activity assay quantifies kinase activity by measuring the conversion of ATP to ADP catalyzed by the kinase. Specific reagents are used to convert the ADP in the reaction back to ATP, resulting in the production of a luminescent signal.

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℃

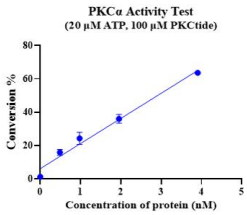
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

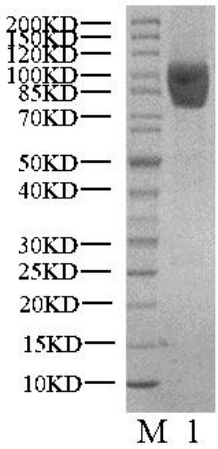
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Validation Data



The activity of PKCα is based on the ADP-GLO kinase activity assay quantifies kinase activity by measuring the conversion of ATP to ADP catalyzed by the kinase. Specific reagents are used to convert the ADP in the reaction back to ATP, resulting in the production of a luminescent signal.



Recombinant Human PKC alpha/PRKCA Kinase was resolved with SDS-PAGE under reducing (Lane 1) conditions.