RP03389LQ
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Recombinant Human PKC eta/PRKCH Kinase

Catalog No.: RP03389LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Baculovirus-Insect Cells	5583	P24723

Tags
N-GST

Synonyms
PRKCH; PKCL; PRKCL; PKCη; nPKC-eta; PKC-L; Protein kinase C eta type

Product Information

Source

Purification
≥ 80 % as determined by SDS-PAGE;≥ 80 % as determined by HPLC.

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

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM HEPES, 200 mM NaCl, 20% glycerol, 5 mM DTT, 0.1 M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Contact

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Background

Protein kinase C eta type is an enzyme that in humans is encoded by the PRKCH 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. 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 in cells. The protein encoded by this gene is one of the PKC family members. It is a calcium-independent and phospholipids-dependent protein kinase. It is predominantly expressed in epithelial tissues and has been shown to reside specifically in the cell nucleus. This protein kinase can regulate keratinocyte differentiation by activating the MAP kinase MAPK13 (p38delta)-activated protein kinase cascade that targets CCAAT/enhancer-binding protein alpha (CEBPA). It is also found to mediate the transcription activation of the transglutaminase 1 (TGM1) gene.

Basic Information

Description
Recombinant Human PKC eta/PRKCH Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ser2-Pro683) of Human PRKCH (Accession #P24723) fused with a N-GST tag.

Bio-Activity
The activity of PRKCH 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
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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

Storage
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.
Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.
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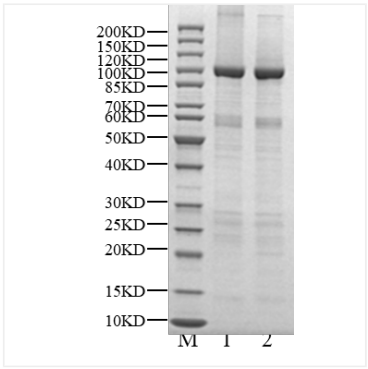
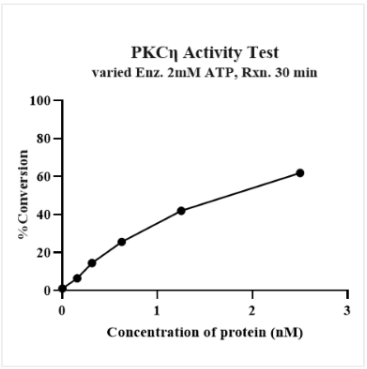
Validation Data



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



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