

RP03399LQ

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Recombinant Human PKC iota/PRKCI Kinase

Catalog No.: RP03399LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Baculovirus- Insect Cells	5584	P41743

Tags

N-GST

Synonyms

PRKCI; DXS1179E; nPKC-iota; PKCι;
Protein kinase C iota type

Product Information

Source	Purification
	≥ 90 % as determined by SDS-PAGE; ≥ 90 % 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 Tris-HCl, 150 mM NaCl, 5%
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 iota type is an enzyme that in humans is encoded by the PRKCI gene. This gene encodes a member of the protein kinase C (PKC) family of serine/threonine protein kinases. The PKC family comprises at least eight members, which are differentially expressed and are involved in a wide variety of cellular processes. This protein kinase is calcium-independent and phospholipid-dependent. It is not activated by phorbol esters or diacylglycerol. This kinase can be recruited to vesicle tubular clusters (VTCs) by direct interaction with the small GTPase RAB2, where this kinase phosphorylates glyceraldehyde-3-phosphate dehydrogenase (GAPD/GAPDH) and plays a role in microtubule dynamics in the early secretory pathway. This kinase is found to be necessary for BCL-ABL-mediated resistance to drug-induced apoptosis and therefore protects leukemia cells against drug-induced apoptosis. There is a single exon pseudogene mapped on chromosome X.

Basic Information

Description

Recombinant Human PKC iota/PRKCI Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Pro2-Val596) of Human PRKCI (Accession #P41743) fused with a N-GST tag.

Bio-Activity

The activity of PRKCI 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

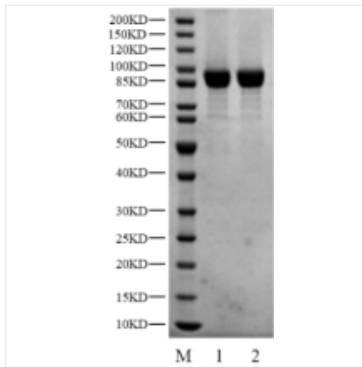
For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

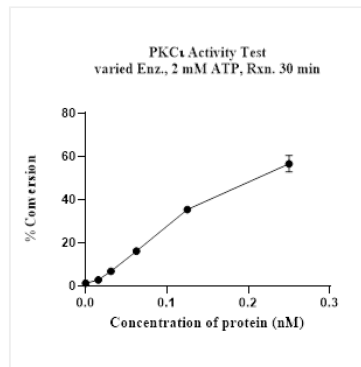
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated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

* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



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



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