

Recombinant Human PKC gamma/PRKCG Kinase

Catalog No.: RP03371LQ Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 5582 P05129

Tags N-GST

Synonyms

PRKCG; PKCG; PKC-gamma; Protein

kinase C gamma type

Product Information

Source Purification

Baculovirus-Insect ≥ 85% as

Cells determined by SDSPAGE;≥ 85% as
determined by
HPLC.

Calculated MW Observed MW

105.0 kDa 85-110 kDa

Endotoxin

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

Formulation

Supplied as a 0.22 μ m 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 gamma type is an enzyme that in humans is encoded by the PRKCG gene. PRKCG has been shown to interact with GRIA4. Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. This protein kinase is expressed solely in the brain and spinal cord and its localization is restricted to neurons. Knockout studies in mice also suggest that this kinase may be involved in neuropathic pain development. Defects in this protein have been associated with neurodegenerative disorder.

Basic Information

Description

Recombinant Human PKC gamma/PRKCG Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ala2-Met697) of Human PRKCG (Accession #P05129) fused with a N-GST tag.

Bio-Activity

The activity of PRKCG 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.

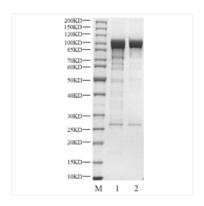
Storage

Store at -70°C. This product is stable at \leq -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.

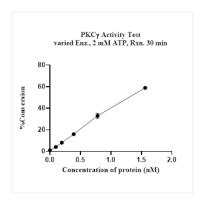
Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Validation Data



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



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