Recombinant Human PKC epsilon/PRKCE Kinase

Catalog No.: RP03349LQ

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Sequence Information

Species
Human

Gene ID
5581

Swiss Prot
Q02156

Tags
N-GST

Synonyms
PRKCE; PRKCE; nPKC-epsilon; Protein kinase C epsilon type

Product Information

Source
Baculovirus-Insect Cells

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

Calculated MW
110.2 kDa

Observed MW
90-120 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, 0.1 M 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 epsilon type (PKCε) is an enzyme that in humans is encoded by the PRKCE gene. PKCε is an isoform of the large PKC family of protein kinases that play many roles in different tissues. In cardiac muscle cells, PKCε regulates muscle contraction through its actions at sarcomeric proteins, and PKCε modulates cardiac cell metabolism through its actions at mitochondria. PKCε is clinically significant in that it is a central player in cardioprotection against ischemic injury and in the development of cardiac hypertrophy.

Basic Information

Description
Recombinant Human PKC epsilon/PRKCE Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Val2-Pro737) of Human PRKCE (Accession #Q02156) fused with a N-GST tag.

Activity
The activity of PRKCE 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
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℃

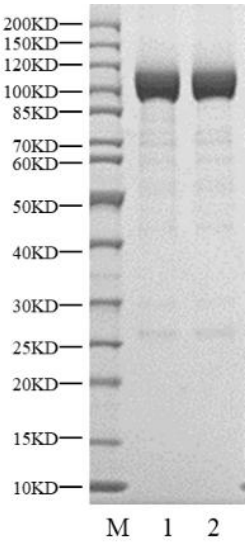
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

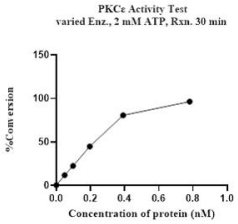
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Recombinant Human PKC epsilon/PRKCE Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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