

PRKCE active protein

Recombinant PRKCE protein

CATALOG #
AAA60334

HOST
Baculovirus

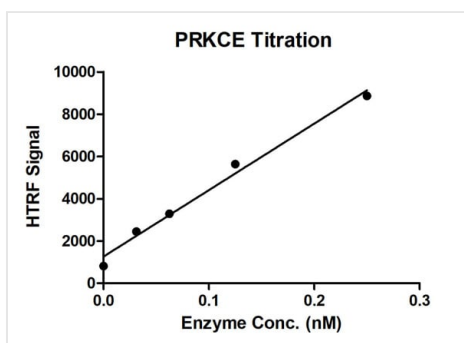
PRODUCT SYNONYMS

PRKCE; Recombinant PRKCE protein; Protein Kinase C Epsilon; PRKCE active protein

PRODUCT SPECIFICATIONS

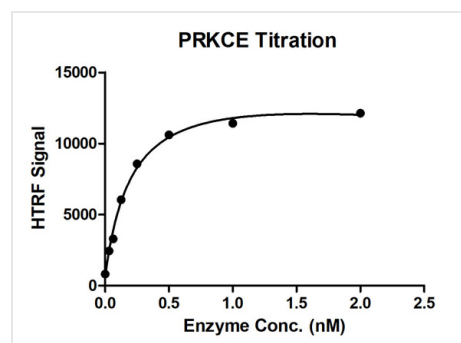
Host	Baculovirus
Purity/Purification	>=90%
Form/Format	Recombinant PRKCE protein is supplied in 25 mM HEPES-NaOH pH7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Protein Details	Recombinant PRKCE protein was expressed in baculovirus expression system as the full-length protein (accession number NP_005391.1) with a N-terminal DYKDDDDK tag. The molecular weight of the protein is 85 kDa.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



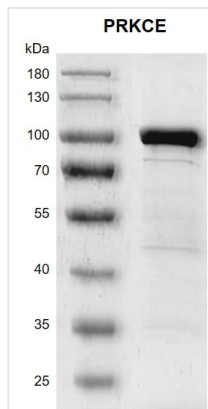
Bioactivity

HTRF assay for PRKCE; activity 11 uM STK S1 substrate was incubated with different concentrations of PRKCE; protein in a 10 ul reaction system containing 1×Enzymatic Buffer, 10 mM MgCl₂, 1 mM DTT and 100 uM ATP for 1 hour. The detection reagents were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature.



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SDS-PAGE

Recombinant PRKCE; protein 110% SDS-PAGE Coomassie staining 1MW: 85 kDa 1Purity:
 >= 90%

ADDITIONAL INFORMATION

Related Product Information for PRKCE active protein	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. PRKCE (Protein Kinase C Epsilon), a calcium-independent, phospholipid- and diacylglycerol (DAG) dependent serine/threonine-protein kinase that plays essential roles in the regulation of multiple cellular processes linked to cytoskeletal proteins, such as cell adhesion, motility, migration and cell cycle, functions in neuron growth and ion channel regulation, and is involved in immune response, cancer cell invasion and regulation of apoptosis. PRKCE mediates cell adhesion to the extracellular matrix via integrin-dependent signaling, by mediating angiotensin-2-induced activation of integrin beta-1 (ITGB1) in cardiac fibroblasts and phosphorylates MARCKS, which phosphorylates and activates PTK2/FAK, leading to the spread of cardiomyocytes. PRKCE involves in the control of the directional transport of ITGB1 in mesenchymal cells by phosphorylating vimentin (VIM), an intermediate filament (IF) protein. In epithelial cells, PRKCE associates with and phosphorylates keratin-8 (KRT8), which induces targeting of desmoplakin at desmosomes and regulates cell-cell contact. Diseases associated with PRKCE include Ischemia and Anxiety.
Product Categories/Family for PRKCE active protein	Kinase; Recombinant Proteins

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/baculovirus-active-protein/prkce/60334>