

PRKCH active protein

Recombinant PRKCH protein

CATALOG #
AAA60335

HOST
Baculovirus

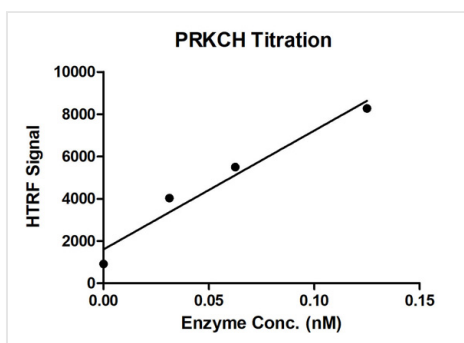
PRODUCT SYNONYMS

PRKCH; Recombinant PRKCH protein; Protein Kinase C Eta; PKC Eta; PRKCH active protein

PRODUCT SPECIFICATIONS

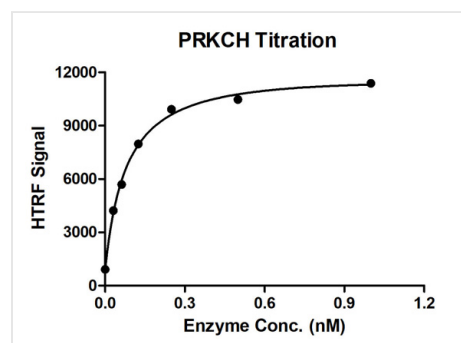
Host	Baculovirus
Purity/Purification	>=90%
Form/Format	Recombinant PRKCH protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Protein Details	Recombinant PRKCH protein was expressed in baculovirus expression system as the full length protein (accession number NP_006246.2) with a N-terminal DYKDDDDK tag. The molecular weight of the protein is 79.1 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



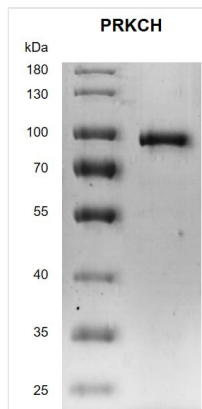
Bioactivity

HTRF assay for PRKCH; activity 1 uM STK S1 substrate was incubated with different concentrations of PRKCH; protein in a 10 ul reaction system containing 1xEnzymatic 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 PRKCH; protein 10% SDS-PAGE Coomassie staining MW: 79.1 kDa Purity:
>= 90%

ADDITIONAL INFORMATION

Related Product Information for PRKCH 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. PRKCH (Protein Kinase C Eta), a calcium-independent, phospholipid- and diacylglycerol (DAG)-dependent serine/threonine-protein kinase that is involved in the regulation of cell differentiation in keratinocytes and pre-B cell receptor, mediates regulation of epithelial tight junction integrity and foam cell formation, and is required for glioblastoma proliferation and apoptosis prevention in MCF-7 cells. In keratinocytes, binds and activates the tyrosine kinase FYN, which in turn blocks epidermal growth factor receptor (EGFR) signaling and leads to keratinocyte growth arrest and differentiation. PRKCH can regulate keratinocyte differentiation by activating the MAP kinase MAPK13 (p38delta)-activated protein kinase cascade that targets CCAAT/enhancer-binding protein alpha (CEBPA). Diseases associated with PRKCH include Stroke, Ischemic and Glioblastoma.

Product Categories/Family for PRKCH 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://www.aaabiotech.com/baculovirus-active-protein/prkch/60335>