

Recombinant human PKA C-alpha/PRKACA protein

Catalog Number: ATGP3580

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-351aa

UniProt No.

P17612

NCBI Accession No.

NP_002721

Alternative Names

cAMP-dependent protein kinase catalytic subunit alpha isoform Calpha1, PRKACA, PKACA, PPNAD4

PRODUCT SPECIFICATION

Molecular Weight

67 kDa (578aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

GST-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PRKACA, also known as cAMP-dependent protein kinase catalytic subunit alpha isoform Calpha1, is a member of the Ser/Thr protein kinase family. It is responsible for phosphorylating other proteins and substrates, changing their activity. This protein is a member of the AGC kinase family, and contributes to the control of cellular processes that include glucose metabolism, cell division, and contextual memory. Recombinant human PRKACA

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protein, fused to GST-tag at N-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

<MSPILGYWKI KGLVQPTRLLEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPRGSH>MGN AAAAKKGSEQ ESVKEFLAKA KEDFLKKWES PAQNTAHL DQ FERI KTLGTG SFGRVMLVKH KETGNHYAMK ILDKQKVVKL KQIEHTLNEK RILQAVNFPF LVKLEFSFKD NSNLYMMEY VPGGEMFSL RRIGRFSEPH ARFYAAQIVL TFEYLHSLDL IYRDLKPENL LIDQQGYIQV TDFGFAKRVK GRTWTLCGTP EYLAPEIILS KGYNKAVDWW ALGVLIYEMA AGYPPFFADQ PIQIYEKIVS GKVRFP SHFS SDLKLLRNL LQVDLTKRFG NLKNGVNDIK NHKWFATTDW IAIYQRKVEA PFIPKFKGPG DTSNFDDYEE EEIRVSINEK CGKEFSEF

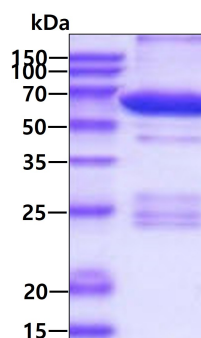
General References

Moody SE. et al., (2015) *Oncogene*. 34: 2061-2071.

Nanba K. et al., (2016) *Eur J Endocrinol*. 175: K1-6.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.