
Product Data Sheet

Product Name: PRKACA Human, sf9

Cat. No.: GP22609

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms cAMP-dependent protein kinase alpha-catalytic subunit; EC 2.7.11.11; PKA C-alpha; PKACA; PRKACA; MGC48865; MGC102831.

Amino Acid Sequence

MSPILGYWKI KGLVQPTRLLEYLEEKYEE HLYERDEGDK WRNKKFELGL
 EFPNLPYYID GDVCLTQSMALIRYIADKHN MLGGCPKERA EISMLEGAVL
 DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH
 PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA
 WPLQGWQATF GGGDHPKSD LVPRGSHMGN AAAAKKGSEQ ESVKEFLAKA
 KEDFLKKWES PAQNTAHLAQ FERIKTLGTG SFGRVMLVKH KETGNHYAMK
 ILDKQKVVKL KQIEHTLNEK RILQAVNFPF LVKLEFSFKD NSNLYMVMFY
 VPGGEMFSHL RRIGRFSEPH ARFYAAQIVL TFEYLHSLDL IYRDLKPENL
 LIDQQGYIQV TDFGFAKRVK GRTWTLCGTP EYLAPEIILS KGYNKAVDWW
 ALGVLIYEMA AGYPPFFADQ PIQIYEKIVS GKVRFP SHFS SDLKDLLRNL
 LQVDLTKRFG NLKNGVNDIK NHKWFATTDW IAIYQRKVEA PFIPKFKGPG
 DTSNFDDYEE EEIRVSINEK CGKEFSEF.

Formulation Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 20% glycerol, 5 mM DTT, 0.1 M Trehalose.

Introduction

cAMP-dependent protein kinase catalytic subunit alpha isoform Calpha1 (PRKACA) belongs to the Ser/Thr protein kinase family. PRKACA is responsible for phosphorylating other proteins and substrates, changing their activity. The PRKACA protein is a member of the AGC kinase family, and contributes to the regulation of cellular processes which include glucose metabolism, cell division, and contextual memory.

Stability

Stored at -80°C for 1 year from date of receipt. It is stable at -20°C for 3 months after

Caution: Product has not been fully validated for medical applications. For research use only.

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opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Background

PRKACA Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 578 amino acids (1-351 a.a.) and having a molecular mass of 67kDa (Migrates at 50-70kDa on SDS-PAGE under reducing conditions). PRKACA is expressed with a 227 amino acid GST Tag at N-Terminus and purified by proprietary chromatographic techniques.

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