

Recombinant Full Length Human PRKACA protein, Untagged

Cat. No. PRKACA-31113TH Lot. No. (See product label)

SPECIFICATION

Product Overview Full length human recombinant PRKACA, with a MW of 41 kDa.

Species Human

Source E.coli

ProteinLength 1-351 a.a.

Description cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

Form Liquid

Purity >95% by SDS-PAGE

Storage buffer Preservative: None
Constituents: 50% Glycerol, 5mM EDTA, 5mM Beta mercaptoethanol, 25mM Potassium phosphate, 150mM Sodium chloride, pH 6.5

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Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Full Length	Full L.
GENE INFORMATION	
Gene Name	PRKACA protein kinase, cAMP-dependent, catalytic, alpha [Homo sapiens]
Official Symbol	PRKACA
Synonyms	PRKACA; protein kinase, cAMP-dependent, catalytic, alpha; cAMP-dependent protein kinase catalytic subunit alpha; PKACa;
Gene ID	5566
mRNA Refseq	NM_002730
Protein Refseq	NP_002721
MIM	601639
Uniprot ID	P17612
Chromosome Location	19p13.1
Pathway	Adaptive Immune System, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem;
Function	ATP binding; cAMP-dependent protein kinase activity; cAMP-dependent protein kinase activity; cAMP-dependent protein kinase inhibitor activity; nucleotide binding;

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