

Recombinant Human PRKACA, GST-tagged

Cat. No. PRKACA-55643H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRKACA was expressed as gst-tagged fusion protein by E.Coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	False
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.
AA Sequence	N-term-216aa
Storage	The protein is stored in PBS buffer at -20 oC. Repeated freeze-thaw cycles should be avoided.

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Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name [PRKACA protein kinase, cAMP-dependent, catalytic, alpha \[Homo sapiens\(human\) \]](#)

Official Symbol PRKACA

Synonyms

PRKACA; PKACA; protein kinase, cAMP-dependent, catalytic, alpha; cAMP-dependent protein kinase catalytic subunit alpha; PKA C-alpha; protein kinase A catalytic subunit; cAMP-dependent protein kinase catalytic subunit alpha, isoform 1; NP_002721.1; EC 2.7.11.11; NP_997401.1

Gene ID [5566](#)

mRNA Refseq [NM_002730](#)

Protein Refseq [NP_002721](#)

MIM [601639](#)

UniProt ID P17612

Chromosome Location 19p13.1

Pathway

Activation of NMDA receptor upon glutamate binding and postsynaptic events; Adrenergic signaling in cardiomyocytes; Adrenergic signaling in cardiomyocytes

Function

cAMP-dependent protein kinase activity; protein binding; protein kinase A regulatory

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subunit binding