# Recombinant Human PRKACA, GST-tagged

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

## SPECIFICATION

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| **Product Overview** | Recombinant Human PRKACA was expressed as gst-tagged fusion protein by E.Coli and puri?ed 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 bu?er 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

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| **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 |

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