

## Recombinant Human PRKACA protein, His-tagged

**Cat. No.** PRKACA-3371H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PRKACA protein(1-351 aa), fused with N-terminal His tag, was expressed in E.coli.                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 1-351 aa                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Form</b>             | The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na <sub>2</sub> HPO <sub>4</sub> , 17 mM NaH <sub>2</sub> PO <sub>4</sub> , 68 mM NaCl, pH 7.4). Prior to lyophilization, 5% (w/v) trehalose and 5% (w/v) mannitol were incorporated as cryoprotective excipients.                                                                          |
| <b>AASequence</b>       | MGNAAAAKKGSEQESVKEFLAKAKEDFLKKWESPAQNTAHLQFERIKTLGTGSFG<br>RVMLVKHKETGNHYAMKILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDN<br>SNLYMVMYVPGGEMFSLRRIGRFSEPHARFYAAQIVLTFEYLSLDLIYRDLKPE<br>NLLIDQQGYIQVTDFGFAKRVKGRTWTLCGTPEYLAPEILSKGYNKAVDWWALGVLI<br>YEMAAGYPPFFADQPIQIYEKIVSGKVRFPSPHFSSDLKDLLRNLLQVDLTKRFGNLKN<br>GVNDIKNHKWFATTDWIAIYQRKVEAPFIPKFKGPGDTSNFDDYEEEEIRVSINECKG<br>KEFSEF |
| <b>Purity</b>           | 85%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>          | Store at 2-8°C for 1-2 weeks. Aliquot and store at -20°C to -80°C for up to 3 months,                                                                                                                                                                                                                                                                                               |

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reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.

#### Reconstitution

Dissolve the product in 200 µl sterile water to achieve a working concentration of 0.25 g/µl. If experimental compatibility allows, mix the aqueous solution with an equal volume of glycerol (1:1 ratio) after initial reconstitution.

### 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; PKA C-alpha; protein kinase A catalytic subunit; cAMP-dependent protein kinase catalytic subunit alpha, isoform 1; PKACA; MGC48865; MGC102831;

**Gene ID** 5566

**mRNA Refseq** NM\_002730

**Protein Refseq** NP\_002721

**MIM** 601639

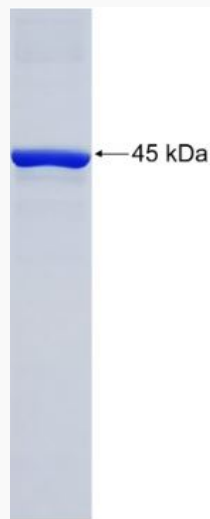
**UniProt ID** P17612

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## SDS-PAGE



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