

**PRKACA, 1-351aa, Human, GST-tag, Baculovirus**

**Cat.NO.: TP03522**

3th Edition

**Synonyms:**cAMP-dependent protein kinase catalytic subunit alpha isoform Calpha1, PRKACA, PKACA, PPNAD4

**Description:**PRKACA, also known as cAMP-dependent protein kinase catalytic subunit alpha isoform Calpha1, is a member of the Ser/Thr protein kinase family. It is responsible for phosphorylating other proteins and substrates, changing their activity. This protein is a member of the AGC kinase family, and contributes to the control of cellular processes that include glucose metabolism, cell division, and contextual memory. Recombinant human PRKACA protein, fused to GST-tag at N-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:**Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**Molecular Weight:**67.0kDa (578aa), 50-70kDa (SDS-PAGE under reducing conditions.)

**Sequences:**

MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADK  
HNMLGGCPKERAEISMLEGAVLDIRYGVSR IAYSKDFETLKVDFLSKLP EMLKMFEDRLCHKTYLNGDHVTHPDFM  
LYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLVPRGSHMGN  
AAAAKKGSEQESVKEFLAKAKEDFLKKWESPAQNTAHL DQFERIKTLGTGSFGRVMLVKHKETGNHYAMKILDKQK  
VVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMVM EYVPGGEMFSLR RIGRFSEPHARFYAAQIVLTFEY  
LHSLDLIYRDLKPENLLIDQQGYIQVDFGFAKRVKGR TWTLCGTPEYLAPEIILSKGYNKAVDWWALGVL IYEMAAG  
YPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVNDIKNHKWFATTDWAIYQRKVEA  
PFIPKFKGPGDTSNFDDYEEEEIRVSINEKCGKEFSEF

**Purity:**> 95% by HPLC

**Concentration:**0.25mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.