

PRKACB,1-398aa, Human, His tag, E.coli

Cat.NO.: TP03523

3th Edition

Synonyms:Protein kinase, cAMP-dependent, catalytic, beta, PKACB

Description:PRKACB is a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase. 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. Recombinant human PRKACB protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight:48.6 kDa (421aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSM AAYREPPCNQYTGTTTALQKLEGFASRLFHRHSGKTAHDQKTALENDSLH
FSEHTALWDRSMKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKT LGTGSFGRVMLVKHKATEQYYAMKILDKQK
VVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMVM EYVPGGEMFSLRRI RGFSEPHARFYAAQIVLTFEY
LHSLDLIYRDLKPENLLIDHQGYIQVDFGF AKRVKGRWTLCGTPEYLAPEIILSKGYNKAVDWWALGVLIYEMAAG
YPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVSDIKTHKWFATTDWIAIYQRKVEA
PFIPKFRGSGDTSNFDDYEEEDIRV SITEKCAKEFG EF

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

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.