Recombinant Human PRKACB, His-tagged

Cat. No. PRKACB-173H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PRKACB,1-398aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-398aa
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 Mass	48.6 kDa (421aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAAYREP PCNQYTGTTT ALQKLEGFAS RLFHRHSKGT AHDQKTALEN DSLHFSEHTA LWDRSMKEFL AKAKEDFLKK

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	WENPTQNNAG LEDFERKKTL GTGSFGRVML VKHKATEQYY AMKILDKQKV VKLKQIEHTL NEKRILQAVN FPFLVRLEYA FKDNSNLYMV MEYVPGGEMF SHLRRIGRFS EPHARFYAAQ IVLTFEYLHS LDLIYRDLKP ENLLIDHQGY IQVTDFGFAK RVKGRTWTLC GTPEYLAPEI ILSKGYNKAV DWWALGVLIY EMAAGYPPFF ADQPIQIYEK IVSGKVRFPS HFSSDLKDLL RNLLQVDLTK RFGNLKNGVS DIKTHKWFAT TDWIAIYQRK VEAPFIPKFR GSGDTSNFDD YEEEDIRVSI TEKCAKEFGE F
Purity	>80% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	PRKACB protein kinase, cAMP-dependent, catalytic, beta [Homo sapiens]
Official Symbol	PRKACB
Synonyms	PRKACB; protein kinase, cAMP-dependent, catalytic, beta; cAMP-dependent protein kinase catalytic subunit beta; PKACb; PKA C-beta; protein kinase A catalytic subunit beta; cAMP-dependent protein kinase catalytic beta subunit isoform 4ab; PKACB; MGC9320; MGC41879; DKFZp781I2452;
Gene ID	5567
mRNA Refseq	NM_001242857
Protein Refseq	NP_001229786

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MIM	176892
UniProt ID	P22694
Chromosome Location	1p36.1
Pathway	AMPK signaling, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem;
Function	ATP binding; cAMP-dependent protein kinase activity; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; ubiquitin protein ligase binding;

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