

Recombinant Human Creatine Kinase, Brain, His-tagged

Cat. No. CKB-2729H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human CKB protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography technique. MW = 44.8 kDa (401aa), confirmed by MALDI-TOF.

Species Human

Source E.coli

Description CKB (Creatine kinase B-type) is a cytoplasmic enzyme involved in energy homeostasis. The protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in brain as well as in other tissues, and as a heterodimer with a similar muscle isozyme in heart. Creatine kinases provide the energy of phosphate hydrolysis necessary to drive the normal function of many cellular systems including muscle, tumor and cancer cells.

Sequences Of Amino Acids

MGSSHHHHH SGLVPRGSH MPFSNSHNAL KLRFPAEDEF PLSAHNNHM
 AKVLTPELYA ELRAKSTPSG FTLDDVIQTG VDNPGHPYIM VGCVAGDEE
 SYEVFKDLFD PIEDRHGGY KPSDEHKTDL NPDNLQGGDD LDPNYVLSSR
 VRTGRSIRGF CLPPHCSRGE RRAIEKLAVE ALSSLDGDLA GRYYALKSMT
 EAEQQQLIDD HFLFDKPVSP LLLASGMARD WPDARGIWHN DNKTFLVWVN
 EEDHLRVISM QKGGNMKEVF TRFCTGLTQI ETLFKSKDYE FMWNPHLGYI
 LTCPSNLGTG LRAGVHIKLP NLGKHEKFSE VLKRLRLQKR GTGGVDAAV
 GGVPDVSAD RLG FSEVELV QMVVDGVKLL IEMEQRLEQG QAIDDLMPAQ K

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Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
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.
GENE INFORMATION	
Gene Name	CKB creatine kinase, brain [Homo sapiens]
Synonyms	CKB; creatine kinase, brain; B-CK; CKBB; creatine kinase-B; EC 2.7.3.2
Gene ID	1152
mRNA Refseq	NM_001823
Protein Refseq	NP_001814
MIM	123280
UniProt ID	P12277
Chromosome Location	14q32.3
Pathway	Arginine and proline metabolism; Metabolic pathways; Metabolism of amino acids
Function	ATP binding; creatine kinase activity; nucleotide binding; protein binding

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