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# Recombinant human Creatine kinase B/CKB protein

Catalog Number: ATGP0626

### **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-381aa

#### UniProt No.

P12277

#### **NCBI Accession No.**

NP 001814

#### **Alternative Names**

Creatine kinase B-type, Brain creatine kinase, Creatine kinase B chain, Creatine phosphokinase B-type, CPK-B, B-CK, CKBB

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

44.8 kDa (401aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

# 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. Recombinant human CKB protein, fused to His-tag at



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N-terminus, was expressed in E. coli and purified by using conventional chromatography technique

# **Amino acid Sequence**

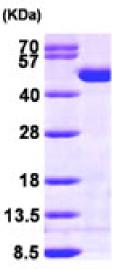
MGSSHHHHHH SSGLVPRGSH MPFSNSHNAL KLRFPAEDEF PDLSAHNNHM AKVLTPELYA ELRAKSTPSG FTLDDVIQTG VDNPGHPYIM TVGCVAGDEE SYEVFKDLFD PIIEDRHGGY KPSDEHKTDL NPDNLQGGDD LDPNYVLSSR VRTGRSIRGF CLPPHCSRGE RRAIEKLAVE ALSSLDGDLA GRYYALKSMT EAEQQQLIDD HFLFDKPVSP LLLASGMARD WPDARGIWHN DNKTFLVWVN EEDHLRVISM QKGGNMKEVF TRFCTGLTQI ETLFKSKDYE FMWNPHLGYI LTCPSNLGTG LRAGVHIKLP NLGKHEKFSE VLKRLRLQKR GTGGVDTAAV GGVFDVSNAD RLGFSEVELV QMVVDGVKLL IEMEQRLEQG QAIDDLMPAQ K

# **General References**

Chang EJ., et al. (2008) Nat Med. 14(9):966-72. Debrincat MA., et al. (2007) J Biol Chem. 282(7):4728-37.

## **DATA**

### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)