

# Recombinant human Creatine kinase B/CKB protein

Catalog Number: ATGP3384

## 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

42.6 kDa (381aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 90% by SDS-PAGE

### Tag

Non-Tagged

### 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, also known as Creatine Kinase B-type, is encoded by this gene is a cytoplasmic enzyme involved in energy homeostasis. The encoded 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. Recombinant human CKB, was expressed in E. coli and purified by using conventional chromatography techniques.

# Recombinant human Creatine kinase B/CKB protein

Catalog Number: ATGP3384

## Amino acid Sequence

MPFSNSHNAL KLRFPAEDEF PDLSAHNNHM AKVLTPELYA ELRAKSTPSG FTLLDDVIQTG VDNPGHPYIM TVGCVAGDEE  
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 GGVFDVSNAD RLGFESEVELV QMVVDGVKLL IEMEQRLEQG QAIDDLMPAQ K

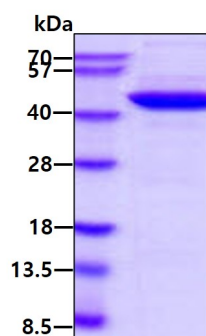
## General References

Steen C., et al. (2010) PLoS One. 5(5):e10811.

Hara H., et al. (2009) J Virol. 83(10) 5137-47.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.