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

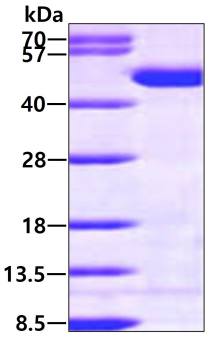
<MGSSHHHHHH SSGLVPRGSH> MPFSNSHNAL KLRFPAEDEF PDLSAHNNHM AKVLTPELYA ELRAKSTPSG FTLDDVIQTG VDNPGHPYIM TVGCVAGDEE SYEVFKDLFD PIIEDRHGGY KPSDEHKTDL NPDNLQGGDD LDPNYVLSSR VRTGRSIRGF CLPPHCSRGE RRAIEKLAVE ALSSLDGDLA GRYYALKSMT EAEQQQLIDD HFLFDKPVSP LLLASGMARD WPDARGIWHN DNKTFLVWVN EEDHLRVISM QKGGNMKEVF TRFCTGLTQI 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.