

CKB Creatine Kinase Brain Human Recombinant Protein, His Tag

Catalog Number: PROTP12277-2

Introduction

CKB is a cytoplasmic enzyme that takes part in energy homeostasis. CKB enzyme reversibly catalyzes the transfer of phosphate among ATP and various phosphogens such as creatine phosphate. CKB functions as a homodimer in the brain as well as in different tissues, and as a heterodimer with a similar muscle isozyme in heart. Creatine kinases supply the energy of phosphate hydrolysis essential to drive the normal role of many cellular systems including muscle, tumor and cancer cells.

Overview

Product Name	CKB Creatine Kinase Brain Human Recombinant Protein, His Tag
Description	CKB Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 401 amino acids (1-381 a.a.) and having a molecular mass of 44.8 kDa. The CKB is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.
Source	E. Coli
Physical Appearance	Sterile filtered colorless solution.
Formulation	CKB Human solution containing 20mM Trsi pH-8, 1mM DTT, & 10% glycerol.

Storage

Store in -20°C for long term storage. After reconstitution, store in 4°C for short term usage within a few days. Avoid freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SGLVPRGSH MPFSNSHNAL KLRFAEDEF PDLSAHNNHM AKVLTPELYA ELRAKSTPSG FTLDVVIQTG 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 GTGGVDTA AV GGVFDVSNAD
RLGFSEVELV QMVVDGVKLL IEMEQRLEQG QAIDDLMPAQ K.

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