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## Product Data Sheet

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Product Name: CKB Human His  
 Cat. No.: GP22462  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 2.7.3.2; Creatine kinase B chain; Creatine kinase B type; CKB; CKBBB; B-CK; Creatine Kinase Brain.		
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 DNKTFVLVWVN EEDHLRVISM QKGGNMKEVF TRFCTGLTQI ETLFKSKDYE FMWNPFLGYI LTCPSNLGTG LRAGVHIKLP NLGKHEKFSE VLKRLRLQKR GTGGVDTAAV GGVFDVSNAD RLGFESEVELV QMVVDGVKLL IEMEQRLEQG QAIDDLMPAQ K.		
Formulation	CKB Human solution containing 20mM Tris pH-8, 1mM DTT, & 10% glycerol.		

### 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.

### Stability

CKB Human although stable at 4°C for 1 week, should be stored below -18°C . Please prevent freeze thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

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