
Product Data Sheet

Product Name: CKB Human
 Cat. No.: GP22460
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Creatine kinase B-type; B-CK; BCK; CKBB; HEL-211; HEL-S-29; CKB; EC 2.7.3.2; Creatine kinase B chain; CKB; CKBB; CKBBI.		
Amino Acid Sequence	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 FMWNPFLGYI LTCPSNLGTG LRAQVHIKLP NLGKHEKFSE VLKRLRLQKR GTGGVDAAV GGVDVSNAD RLGFDSEVELV QMVVDGVKLL IEMEQRLEQG QAIDDLMPAQ K.		
Formulation	CKB solution (1mg/ml) contains 20mM Tris-Hcl Buffer (pH 8.0), 10% glycerol and 1mM DTT.		

Introduction

Creatine Kinase BB 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. The encoded protein is a member of the ATP:guanido phosphotransferase protein family. A pseudogene of this gene has been characterized.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

CKB Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 381 amino acids (1-381a.a) and having a molecular mass of 42.6kDa. CKB is purified by proprietary chromatographic techniques.

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