Recombinant Human Creatine Kinase, Brain

Cat. No. CKB-195H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CKBBI produced in*Pichia Pastoris*is a glycosylated polypeptide chain having an identical amino acid sequence compared to the native enzyme, purified under non-denaturing conditions and reacts with polyclonal antibodies to BB Isoenzyme in ELISA. The CKBBI is purified by proprietary chromatographic techniques.
Species	Human
Source	P.pastoris
Description	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.
Physical Appearance	Sterile Filtered colourless liquid formulation.
Formulation	The protein (2.2 mg/ml) contains 10mM Bis-Tris-HCl pH-6.2, 50% glycerol, 0.5mM EDTA and 0.5mM DTT.
Stability	CKBBI although stable at 15°C for 7 days, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Biological Activity	The biological activity measured by the enzymatic activity of Creatine phosphokinase procedure No.45-UV, 1IU-1 μmole creatine phosphate was 500 IU/mg at 37°C.

GENE INFORMATION

Gene Name	CKB creatine kinase, brain [Homo sapiens]
Synonyms	CKB; creatine kinase, brain; B-CK; CKBB; creatine kinase-B; EC 2.7.3.2
Gene ID	1152
mRNA Refseq	NM_001823
Protein Refseq	NP_001814
MIM	123280
UniProt ID	P12277
Chromosome Location	14q32.3
Pathway	Arginine and proline metabolism; Metabolic pathways; Metabolism of amino acids
Function	ATP binding; creatine kinase activity; nucleotide binding; protein binding

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