

**CKB, 1-381aa, Human, E.coli**

**Cat.NO.: TP01629**

3th Edition

**Synonyms:** Creatine Kinase B-type, B-CK, BCK, CKBB, HEL-211, HEL-S-29, B CK, BB-CK, Brain creatine kinase, Ckb, Creatine kinase B, Creatine kinase B chain.

**Description:** CKB, also known as Creatine Kinase B-type, is encoded by this gene 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. Recombinant human CKB, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:** Liquid. In 20mM Tris-Hcl Buffer (pH 8.0) containing 10% glycerol, 1mM DTT.

**Molecular Weight:** 42.6kDa (381aa), confirmed by MALDI-TOF

**Sequences:**

MPFSNSHNALKLRFPAEDEFDPDLSAHNNHMAKVLTPELYAELRAKSTPSGFTLDDVIQTGVDNPGHPYIMTVGCVA  
GDEESYEVFKDLFDPIIEDRHGGYKPSDEHKTDLNPDLNQGDDLDPNYVLSSRVRTGRSIRGFCLPPHCSRGERR  
AIEKLAVEALSSLDGDLAGRYYALKSMTEAEQQQLIDDHFLFDKPVSPLLASGMARDWPDARGIWHNDNKTFLVW  
VNEEDHLRVISMQKGGNMKEVFTRFCTGLTQIETLFKSKDYEFMWNPHLGYILTCPSNLGTGLRAGVHIKLPNLGKH  
EKFSEVLKRLRLQKRGTGGVDTAAVGGVFDVSNADRLGFSEVELVQMVVDGVKLLIEMEQRLEQQQAIDDLMPAQ  
K

**Purity:** > 95% by HPLC

**Concentration:** 1mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.