

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.