

Creatine kinase B/CKB Protein, Human, Recombinant

General Information

Synonyms:	CPK-B;HEL-211;CKBB;B-CK;HEL-S-29;BCK
Species:	Human
Expression Host:	E. coli
Molecular Weight:	43.6 kDa. (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	≥ 90% as determined by SDS-PAGE.
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile 20 mM Tris, 50mM NaCl, 1mM EDTA, 5mM β-ME, 50% Glycerol, pH 7.4. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

CKB(Creatine kinase B type) contains 1 phosphagen kinase C-terminal domain and 1 phosphagen kinase N-terminal domain. It belongs to the ATP:guanido phosphotransferase family. CKB consists of a homodimer of two identical brain-type CK-B subunits. CKB is a cytoplasmic enzyme involved in cellular energy homeostasis, with certain fractions of the enzyme being bound to cell membranes, ATPases, and a variety of ATP-requiring enzymes in the cell. There, CKB forms tightly coupled microcompartments for in situ regeneration of ATP that has been used up. CKB reversibly catalyzes the transfer of "energy-rich" phosphate between ATP and creatine or between phospho-creatine (PCr) and ADP. Its functional entity is a homodimer in brain, smooth muscle as well as in other tissues and cells such as neuronal cells, retina, kidney, bone etc.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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