

Product datasheet for **TP727612**

Creatine kinase B type (CKB) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Creatine kinase B chain/B-CK(N-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Met1-Lys381
Tag:	N-His
Buffer:	Supplied as a 0.2 um filtered solution of 20mM TrisHCl,150mM NaCl,10% Glycerol,pH 7.5.
Note:	Recombinant Human Creatine kinase B-type is produced by our E.coli expression system and the target gene encoding Met1-Lys381 is expressed with a 6His tag at the N-terminus.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	1152
UniProt ID:	P12277
Synonyms:	B-CK; CKB; Creatine Kinase BB
Summary:	Creatine kinase B-type (CKB) belongs to the ATP:guanido phosphotransferase family. It has dimer of identical or non-identical chains with MM being the major form in skeletal muscle and myocardium. MB exists in myocardium, and BB exists in many tissues, especially brain. CKB reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa. Clinically, creatine kinase is assayed in blood tests as a marker of myocardial infarction (heart attack), rhabdomyolysis (severe muscle breakdown), muscular dystrophy, autoimmune myositides and acute renal failure.
Protein Families:	Druggable Genome
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways



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