Creatine Kinase M-Type Protein (CKM) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Creatine kinase M-type protein (CKM), Recombinant Protein
Full Product Name	Recombinant human Creatine kinase M-type protein
Product Gene Name	CKM recombinant protein
Sequence	DLDPNYVLSS RVRTGRSIKG YTLPPHCSRG ERRAVEKLSV EALNSLTGEF KGKYYPLKSM TEKEQQQLID DHFLFDKPVS PLLLASGMAR DWPDARGIWH NDNKSFLVWV NEEDHLRVIS MEKGGNMKEV FRRFCVGLQK IEEIFKKAGH PFMWNQHLGY VLTCPSNLGT GLRGGVHVKL AHLSKHPKFE EILTRLRLQK RGTGGVDTAA VGSVFDVSNA DRLGSSEVEQ VQLVVDGVKL MVEMEKKLEK GQSIDDMIPA
Host	E Coli
Form/Format	Liquid containing glycerol
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C. For extended storage, conserve at -20 or -80 degree C.
Molecular Weight	43,101 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
Chromosome Location	Chromosome: 19; NC_000019.9 (45809671..45826235, complement). Location: 19q13.32
OMIM	123310
3D Structure	ModBase 3D Structure for P06732
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CKM recombinant protein	MBS1265155 is a recombinant protein targeting CKM. Also known as Recombinant human Creatine kinase M-type protein. Host: E Coli.
Other Notes	Small volumes of CKM recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CKM. It may not necessarily be applicable to this product.

NCBI GI #	21536288
NCBI GeneID	1158
NCBI Accession #	NP_001815.2
UniProt Primary Accession #	P06732
UniProt Secondary Accession #	Q96QL9
UniProt Related Accession #	P06732
GenBank Nucleotide #	NM_001824.4

NCBI Official Full Name	creatine kinase M-type
NCBI Official Synonym Full Names	creatine kinase, muscle
NCBI Official Symbol	CKM
NCBI Official Synonym Symbols	CKMM; M-CK
UniProt Protein Name	Creatine kinase M-type
UniProt Synonym Protein Names	Creatine kinase M chain; M-CK
Protein Family	Creatine kinase
UniProt Gene Name	CKM
UniProt Synonym Gene Names	CKMM
UniProt Entry Name	KCRM_HUMAN
NCBI Protein Information	creatine kinase M-type; creatine kinase M chain
NCBI Summary for CKM	The protein encoded by this gene is a cytoplasmic enzyme involved in energy homeostasis and is an important serum marker for myocardial infarction. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in striated muscle as well as in other tissues, and as a heterodimer with a similar brain isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family. [provided by RefSeq, Jul 2008]
UniProt Comments for CKM	CKM: 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. Belongs to the ATP:guanido phosphotransferase family. Protein type: EC 2.7.3.2; Amino Acid Metabolism - arginine and proline; Kinase, other Chromosomal Location of Human Ortholog: 19q13.32 Cellular Component: cytosol Molecular Function: creatine kinase activity; ATP binding Biological Process: phosphocreatine biosynthetic process; creatine metabolic process; phosphorylation
Research Articles on CKM	**1.** The crystal structure of CK indicates that the E79 and K138 interaction plays key roles in sustaining the recognition between N-terminal and C-terminal domains of muscle creatine kinase.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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