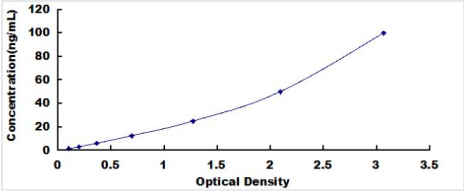
Creatine Kinase, Muscle (CKM) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Creatine Kinase, Muscle (CKM), ELISA Kit
Full Product Name	Human Creatine Kinase, Muscle (CKM) ELISA Kit
Product Gene Name	CKM elisa kit
Product Synonym Names	CK-MM; CKMM; CK3; CK-M; MM-CK; M-CK; Creatine kinase M-type, N-terminally processed
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates, Cell Culture Supernates or Other Biological Fluids.
Detection Range	1.56-100ng/mL
Sensitivity	0.63ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	43,101 Da
OMIM	123310
3D Structure	ModBase 3D Structure for P06732
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CKM elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CKM. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CKM. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CKM, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of CKM in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CKM elisa kit 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.
Searchable Terms for CKM purchase	MBS458389 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Creatine Kinase, Muscle (CKM) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CKM. The ELISA analytical biochemical technique of the MBS458389 kit is based on CKM antibody-CKM antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CKM antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CKM. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CKM elisa kit

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, M-type
NCBI Official Symbol	CKM
NCBI Official Synonym Symbols	CKMM; M-CK; CPK-M
UniProt Protein Name	Creatine kinase M-type
UniProt Synonym Protein Names	Creatine kinase M chain; Creatine phosphokinase M-typeCurated; CPK-M; M-CK
Protein Family	Creatine kinase
UniProt Gene Name	CKM
UniProt Synonym Gene Names	CKMM; CPK-M
NCBI Protein Information	creatine kinase M-type
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	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.
Research Articles on CKM	**1.** Low CK-MB expression is associated with ST-Segment Elevation Myocardial Infarction.
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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