# Native Human creatine kinase, muscle

**Cat. No.** CKM-5306H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Native human CKM was expressedin Human skeletal muscle and its Isoenzyme is 100% CKMM, no CKBB orCKMB detected. |
| **Species** | Human |
| **Source** | Human Skeletal Muscle |
| **Description** | The protein encodedby this gene is a cytoplasmic enzyme involved in energy homeostasis and is animportant serum marker for myocardial infarction. The encoded proteinreversibly catalyzes the transfer of phosphate between ATP and variousphosphogens such as creatine phosphate. It acts as a homodimer in striatedmuscle as well as in other tissues, and as a heterodimer with a similar brainisozyme in heart. The encoded protein is a member of the ATP:guanidophosphotransferase protein family. |
| **Form** | Liquid in 50%Glycerol + 50 mM Tris + 2 mM DTT, pH 7.5. |
| **Purity** | > 96% asdetermined by SDS-PAGE analysis |
| **Specific Activity** | Typically >1000u/ml @ 37°C |
| **Concentration** | 22.3 mg/ml |
| **Storage** | Stable for 1 year at2-4°C. |

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| **Pathways** | Arginine and proline metabolism; Creatinemetabolism; Creatine pathway; Metabolic pathways; Metabolism of amino acidsand derivatives; Regulation of retinoblastoma protein; Urea cycle andmetabolism of amino groups; creatine-phosphate biosynthesis |

## GENE INFORMATION

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| **Gene Name** | CKM creatine kinase, muscle [ Homosapiens ] |
| **Official Symbol** | CKM |
| **Synonyms** | CKM; creatine kinase, muscle; CKMM; M-CK; creatinekinase M-type; creatine kinase-M; creatine kinase M chain; Creatine kinase M-type; Creatine kinase M chain; EC 2.7.3.2 |
| **Gene ID** | 1158 |
| **mRNA Refseq** | NM_001824 |
| **Protein Refseq** | NP_001815 |
| **MIM** | 123310 |
| **UniProt ID** | P06732 |
| **Chromosome Location** | 19q13.2-q13.3 |
| **Function** | ATPbinding; creatine kinase activity; nucleotide binding |

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