# Recombinant Human Creatine Kinase, Muscle

**Cat. No.** CKM-5381H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant fulllength human CKM Type 2 with amino acid sequence exactly the same as thenative enzyme, is a dimeric protein comprised of the M and B subunits. Its molecular weightis 47000 Dalton. |
| **Species** | Human |
| **Source** | P.pastoris |
| **Description** | Creatine kinase(CKM), also known as creatine phosphokinase (CPK) or phospho-creatine kinase(and sometimes incorrectly as creatinine kinase), is an enzyme expressed byvarious tissues and cell types. CKM catalyses the conversion of creatine andconsumes adenosine triphosphate (ATP) to create phosphocreatine (PCr) andadenosine diphosphate (ADP). This CK enzyme reaction is reversible, such thatalso ATP can be generated from PCr and ADP. |
| **Form** | Liquid in Tris, pH6.3-7.2 + 50% glycerol. |
| **Molecular Weight** | 47.0 kDa |
| **Purity** | > 90% asdetermined by capillary electrophoresis |
| **Specific Activity** | Typically > 400u/ml at 37°C |
| **Storage** | Stable for 1 year inworking aliquots at -80. Avoid repeated freeze-thaw cycles. |

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| **OfficialSymbol** | CKM |

## GENE INFORMATION

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| **Gene Name** | CKM creatine kinase, muscle [ Homosapiens ] |
| **Synonyms** | CKM; creatinekinase, muscle; CKMM; M-CK; creatine kinase M-type; creatine kinase-M;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 |
| **Pathway** | Arginine and prolinemetabolism; Creatine metabolism; Creatine pathway; Metabolic pathways;Metabolism; Metabolism of amino acids and derivatives; Regulation ofretinoblastoma protein; Urea cycle and metabolism of amino groups;creatine-phosphate biosynthesis |
| **Function** | ATP binding;creatine kinase activity; nucleotide binding |

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