

Recombinant Human Creatine Kinase, Muscle

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

SPECIFICATION

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

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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