

Recombinant Human Creatine Kinase, Muscle, Type 1

Cat. No. CKM-197H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CKMMITI without C-terminal Lysine on both chains produced in <i>Pichia Pastoris</i> a glycosylated polypeptide chain having an identical amino acid sequence compared to the native enzyme, purified under non-denaturing conditions and reacts with polyclonal antibodies to MM Isoenzyme in ELISA. The CKMMITI is purified by proprietary chromatographic techniques.
Species	Human
Source	P.pastoris
Description	Creatine Kinase MM 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.
Physical Appearance	Sterile Filtered colourless liquid formulation.
Formulation	The protein (7.14 mg/ml) contains 0.1M Tris-HCl, 0.075M NaCl, 10mM 2-ME, 50% glycerol, 0.1% sodium azide, pH 7.2.
Stability	CKMMITI although stable at 15°C for 7 days, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

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Purity Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Biological Activity The biological activity measured by the enzymatic activity of Creatine phosphokinase procedure No.45-UV, 1IU-1 μ mole creatine phosphate was 500IU/mg at 37°C.

GENE INFORMATION

Gene Name [CKM creatine kinase, muscle \[Homo sapiens \]](#)

Synonyms CKM; creatine kinase, muscle; CKMM; M-CK

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 proline metabolism; Metabolic pathways; Metabolism of amino acids; creatine kinase-M; creatine kinase M chain; EC 2.7.3.2

Function ATP binding; creatine kinase activity; nucleotide binding

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