

Recombinant Human Creatine Kinase, Muscle, Type3

Cat. No. CKM-198H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CKMMITIII produced in <i>Pichia Pastoris</i> is 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 CKMMITIII is purified by proprietary chromatographic techniques.
Species	Human
Source	P.pastoris
Description	The three isoenzymes (MM, MB, and BB) are found in muscle, cardiac and brain tissues. These disorders include cardiac disease, mitochondrial disorders, inflammatory myopathies, myasthenia, polymyositis, McArdle's disease, NMJ disorders, muscular dystrophy, ALS, hypo and hyperthyroid disorders, central core disease, acid maltase deficiency, myoglobinuria, rhabdomyolysis, motor neuron diseases, rheumatic diseases, and other that create elevated or reduced levels of Creatine Kinases.
Physical Appearance	Sterile Filtered colourless liquid formulation.
Formulation	Each mg of protein contains 20mM Tris pH 8, 1mM EDTA and 1mM DTT.
Stability	CKMMITIII 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 500 IU/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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