

## Recombinant Human Creatine Kinase, Muscle, Type3

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

### SPECIFICATION

**Product Overview** Recombinant Human CKMMITIII produced in *Pichia Pastoris* 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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  $\mu$ 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA