

Recombinant Human Creatine Kinase, Muscle

Cat. No. CKM-932H **Lot. No.** (See product label)

SPECIFICATION

| | |
|----------------------------|---|
| Product Overview | Human CKM produced in Human Cardiac Tissues having a molecular mass of 82 kDa and PI 5.0-7.5. It is the skeletal muscle specific creatine kinase and is elevated in case of strenuous exercise and in degenerative muscle disease. |
| Species | Human |
| Source | Human |
| Description | The three isoenzymes (MM, MB, and BB) are found in muscle, cardiac and brain tissues. These recombinant proteins are ideal for calibrating diagnostic instruments and researching neuromuscular diseases. Creatine Kinases can be used for indications in many neuromuscular applications. These disorders include cardiac disease, mitochondrial disorders, inflammatory myopathies, myasthenia, polymyositis, McArdles 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. |
| Form | The CKM protein solution is in 50 mM Tris and 2mM DTT, pH 7.5 containing 50 % Glycerol. |
| Purity | Greater than 50.0 %. |
| Physical Appearance | Sterile Filtered clear solution. |

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Storage CKM although stable at 14°C for 1 week, should be stored at 2μ-8°C.

GENE INFORMATION

Gene Name CKM creatine kinase, muscle [Homo sapiens]

Official Symbol CKM

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

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; Creatine metabolism; Metabolic pathways; Metabolism of amino acids and derivatives; Regulation of retinoblastoma protein; Urea cycle and metabolism of amino groups; creatine-phosphate biosynthesis

Function ATP binding; creatine kinase activity; nucleotide binding

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