

Native Human creatine kinase, muscle

Cat. No. CKM-5306H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human CKM was expressed in Human skeletal muscle and its Isoenzyme is 100% CKMM, no CKBB or CKMB detected.
Species	Human
Source	Human Skeletal Muscle
Description	The protein encoded by this gene 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:guanidophosphotransferase protein family.
Form	Liquid in 50% Glycerol + 50 mM Tris + 2 mM DTT, pH 7.5.
Purity	> 96% as determined by SDS-PAGE analysis
Specific Activity	Typically >1000 u/ml @ 37°C
Concentration	22.3 mg/ml
Storage	Stable for 1 year at 2-4°C.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Pathways

Arginine and proline metabolism; Creatinemetabolism; Creatine pathway; Metabolic pathways; Metabolism of amino acidsand derivatives; Regulation of retinoblastoma protein; Urea cycle andmetabolism of amino groups; creatine-phosphate biosynthesis

GENE INFORMATION

Gene Name CKM creatine kinase, muscle [Homosapiens]

Official Symbol CKM

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

Function ATPbinding; creatine kinase activity; nucleotide binding

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