

Active Native Human CKM Protein

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

SPECIFICATION

Product Overview	Active Native Human CKM Protein was purified from human Skeletal Muscle. Isoenzyme Content: CK-MM: > 99% (Helena QuickGel®CK) CK-BB: < 1% CK-MB: < 1% Contaminants: GOT/AST: < 0.01% (Dimension® Clinical Chemistry System) LDH: < 0.01%
Species	Human
Source	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:guanido phosphotransferase protein family.
Form	Clear, colorless to red solution. Solution in 40 mM Tris, 2 mM DTT, 2 mM EDTA, pH 7.5 with 50% glycerol (v/v).
Bio-activity	> 10,000 U/mL (Dimension Clinical Chemistry System). Specific Activity > 500 U/mg protein, One unit will catalyze the transphosphorylation of one micromole of phosphate from creatine phosphate to ADP per minute at 37 centigrade.
Purity	Highly Purified

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Applications	Clinical Chemistry; Cardiac
Storage	At -20 centigrade
Concentration	> 5.0 mg/mL (Coomassie)
CAS	9001-15-4
EC	2.7.3.2

GENE INFORMATION

Gene Name	CKM creatine kinase, muscle [Homo sapiens (human)]
Official Symbol	CKM
Synonyms	CKM; creatine kinase, muscle; CKMM; creatine kinase M-type; creatine kinase-M; creatine kinase M chain; M-CK;
Gene ID	1158
mRNA Refseq	NM_001824
Protein Refseq	NP_001815
MIM	123310
UniProt ID	P06732

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