Recombinant Human CKM Protein

Cat. No. CKM-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Creatine Kinase Muscle produced in E.Coli is a single, non-glycosylated, polypeptide chain, having a molecular weight of ~44kDa. The CKM is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	1-381 aa
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	Sterile Filtered colorless liquid formulation.
Molecular Mass	~44 kDa
Purity	Greater than 90.0% as determined by SDS-PAGE.
Stability	CKM although stable at 10 centigrade for 7 days, should be stored below -18

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	centigrade. Please prevent freeze-thaw cycles.
Storage Buffer	Human CKM solution contains 500 mM NaCl, 20mM Tris-HCl, 4mM CaCl2, 4mM MgCl2and 60 mM B-mercaptoethanol, pH 7.5.
Shipping	Shipped with Ice Packs

GENE INFORMATION

Gene Name	CKM creatine kinase, M-type [Homo sapiens (human)]
Official Symbol	CKM
Synonyms	CKM; creatine kinase, M-type; CKMM; M-CK; CPK-M; creatine kinase M-type; creatine kinase M chain; creatine kinase, muscle; creatine phosphokinase M-type; EC 2.7.3.2
Gene ID	1158
mRNA Refseq	NM_001824
Protein Refseq	NP_001815
MIM	123310
UniProt ID	P06732

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