

Recombinant Human Creatine Kinase, Mitochondrial 2 (sarcomeric), His-tagged

Cat. No. CKMT2-2482H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CKMT2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	40-419aa
Description	CKMT2, as known as SMTCK, belongs to the ATP: guanido phosphotransferase family. CKMT2 is responsible for the transfer of high energy phosphate from mitochondria to the cytosolic carrier, creatine. This enzyme is reversibly catalyzes the transfer of phosphate between ATP and various phosphogens.
Form	Liquid. In 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 1mM DTT, 100mM NaCl.
Molecular Mass	46.1kDa (405aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMEVREQ PRLFPPSADY PDLRKHNNCM AECLTPAIYA KLRNKVTPNG YTLDDQCIQTG VDNPGHPFIK TVGMVAGDEE SYEVFADLFD PVIKLRHNGY DPRVMKHTTD LDASKITQQQ FDEHYVLSSR VRTGRSIRGL SLPPACTRAE RREVENVAIT ALEGLKGDLA GRYYYKLSEMT EQDQQLIDD HFLFDKPVSP LLTCAGMARD WPDARGIWHN YDKTFLIWIN EEDHTRVISM EKGGMKRVF ERFCRGLKEV ERLIQERGWE FMWNERLGVI

 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

	LTCPSNLGTG LRAGVHVRIP KLSKDPRFSK ILENLRLQKR GTGGVDTAAV ADVYDISNID RIGRSEVELV QIVIDGVNYL VDCEKKLERG QDIKVPPLP QFGKK
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	CKMT2 creatine kinase, mitochondrial 2 (sarcomeric) [Homo sapiens]
Official Symbol	CKMT2
Synonyms	CKMT2; creatine kinase, mitochondrial 2 (sarcomeric); creatine kinase S-type, mitochondrial; SMTCK; S-MtCK; mib-CK; basic-type mitochondrial creatine kinase; sarcomeric mitochondrial creatine kinase;
Gene ID	1160
mRNA Refseq	NM_001099735
Protein Refseq	NP_001093205
MIM	123295
UniProt ID	P17540

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Chromosome Location	5
Pathway	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Creatine metabolism, organism-specific biosystem; Creatine pathway, organism-specific biosystem; Creatine pathway, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	ATP binding; creatine kinase activity; nucleotide binding;

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