

Recombinant Full Length Human CKMT2 Protein, GST-tagged

Cat. No. CKMT2-1867HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CKMT2 full-length ORF (AAH29140, 1 a.a. - 419 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	419 amino acids
Description	Mitochondrial creatine kinase (MtCK) is responsible for the transfer of high energy phosphate from mitochondria to the cytosolic carrier, creatine. It belongs to the creatine kinase isoenzyme family. It exists as two isoenzymes, sarcomeric MtCK and ubiquitous MtCK, encoded by separate genes. Mitochondrial creatine kinase occurs in two different oligomeric forms: dimers and octamers, in contrast to the exclusively dimeric cytosolic creatine kinase isoenzymes. Sarcomeric mitochondrial creatine kinase has 80% homology with the coding exons of ubiquitous mitochondrial creatine kinase. This gene contains sequences homologous to several motifs that are shared among some nuclear genes encoding mitochondrial proteins and thus may be essential for the coordinated activation of these genes during mitochondrial biogenesis. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
Molecular Mass	71.83 kDa
AA Sequence	MASIFSKLLTGRNASLLFATMGTSVLTTGYLLNRQKVCAEVREQPRLFPSPADYPDL

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RKHNNCMAECLTPAIYAKLRNKVTPNGYTLDDQCIQTGVDNPGHPFIKTVGMVAGDE
 ESYEVFADLFDPIKLRHNGYDPRVMKHTTDLDDASKITQGQFDEHYVLSSRVRTGRS
 IRGLSLPPACTRAERREVENVAITALEGLKGDLAGRYKKLSEMTEQDQQLIDDHFLF
 DKPVSPLLTCAGMARDWPDARGIWHNYDKTFLIWINEEDHTRVISMEEKGGMKRVF
 ERFCRGLKEVERLIQERGWFEFMWNERLGYILTCPSNLGTGLRAGVHVRIPKLSKDP
 RFSKILENLRQLKRGTTGGVDTAAVADVDDISNIDRIGRSEVELVQIVIDGVNYLVDCEK
 KLERGQDIKVPPLPQFGKK

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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mRNA Refseq	NM_001099735
Protein Refseq	NP_001093205
MIM	123295
UniProt ID	P17540

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