

Recombinant Full Length Human CKMT2 Protein

Cat. No. CKMT2-86HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CKMT2 with N terminal proprietary tag, 71.83kDa.
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.
Form	Liquid
Molecular Mass	71.830kDa inclusive of tags

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AA Sequence	MASIFSKLLTGRNASLLFATMGTSVLTTGYLLNRQKVCAE VREQPRLFPPSADYPDL RKHNNCMAECLTPAIYAKLRNKV TPNGYTLTDQCIQTGVDNPGHPFIKTVGMVAGDE ESYEVFA DLFDVPVILRHNGYDPRVMKHTTDL DASKITQGQFDEHYV LSSRVRTGR SIRGLSLPPACTRAERREVENVAITALEGLK GDLAGRYYKLSEMQDQQLIDDHF LFDKPVSPLLTCAG MARDWPDARGIWHNYDKTFLIWINEEDHTRVISMEEKGGNM K RVFERFCRGLKEVERLIQERGWEFMWNERLGYILTCPSN LGTGLRAGVHVRI PKLS KDPRFSKILENLRLQKRGTGGVD TAAVADVYDISNIDRIGRSEVELVQIVIDGVNYLV DCEKK LERGQDIKVPPLPQFGKK
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.
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
Gene ID	1160
mRNA Refseq	NM_001099735
Protein Refseq	NP_001093205

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MIM	123295
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UniProt ID	P17540
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