

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

 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

AA Sequence

MASIFSKLLTGRNASLLFATMGTSVLTTGYLLNRQKVCAE VREQPRLFPPSADYPDL
 RKHNNCMAECLTPAIYAKLRNKV TPNGYTLTDQCIQTGVDNPGHPFIKTVGMVAGDE
 ESYEVFA DLFDVPVILRHNGYDPRVMKHTTDL DASKITQGQFDEHYV LSSRVRTGR
 SIRGLSLPPACTRAERREVENVAITALEGLK GDLAGRYYKLSEMQDQQLIDDFH
 LFDKPVSPLLTCAG MARDWPDARGIWHNYDKTFLIWIWNEEDHTRVISMEEKGGNM K
 RVFERFCRGLKEVERLIQERGWEFMWNERLGYILTCPSN LGTGLRAGVHVRIKLS
 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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