

Recombinant Human CKMT1B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CKMT1B-2713H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CKMT1B MS Standard C13 and N15-labeled recombinant protein (NP_066270) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Mitochondrial creatine (MtCK) kinase 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. Many malignant cancers with poor prognosis have shown overexpression of ubiquitous mitochondrial creatine kinase; this may be related to high energy turnover and failure to eliminate cancer cells via apoptosis. Ubiquitous mitochondrial creatine kinase has 80% homology with the coding exons of sarcomeric mitochondrial creatine kinase. Two genes located near each other on chromosome 15 have been identified which encode identical mitochondrial creatine kinase proteins.
Molecular Mass	47 kDa
AA Sequence	MAGPFSRLLSARPGRLRLLAGAGSLAAGFLLRPEPVRAASERRRLYPPSAEYPDLR

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KHNNCMASHLTPAVYARLCDKTTPTGWTLDQCIQTGVDNPGHPFIKTVGMVAGDEE
 TYEVFADLFDPVIQERHNGYDPRTMKHTTDLASKIRSGYFDERYVLSSRVRTGRSI
 RGLSLPPACTRAERREVERVVVDALSGLKGDLAGRYRLSEMTEAEQQQLIDDHFL
 FDKPVSPLLTAAGMARDWPDARGIWHNNEKSFLIWWNEEDHTRVISMEEKGGMKR
 VFERFCRGLKEVERLIQERGWEFMWNERLG YILTCPSNLGTGLRAGVHIKPLLSKD
 SRFPKILENLRLQKRGTGGVDTAATGGVFDISNLDRLGKSEVELVQLVIDGVNYLIDC
 ERRLERGQDIRIPTVHHTKHTTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CKMT1B creatine kinase, mitochondrial 1B [Homo sapiens (human)]

Official Symbol CKMT1B

Synonyms CKMT1B; creatine kinase, mitochondrial 1B; CKMT, CKMT1, creatine kinase, mitochondrial 1 (ubiquitous); creatine kinase U-type, mitochondrial; UMTCK; U-MtCK; mia-CK; ubiquitous mitochondrial creatine kinase; acidic-type mitochondrial creatine kinase; creatine kinase, mitochondrial 1 (ubiquitous); CKMT; CKMT1; CKMT1A;

Gene ID 1159

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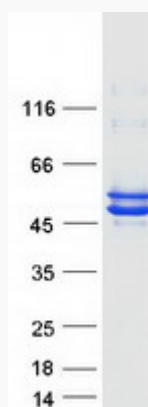
mRNA Refseq [NM_020990](#)

Protein Refseq [NP_066270](#)

MIM [123290](#)

UniProt ID [P12532](#)

SDS-PAGE



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