

Recombinant Human CKMT1B Protein, GST-tagged

Cat. No. CKMT1B-1399H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CKMT1B full-length ORF (NP_066270.1, 1 a.a. - 417 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq, Jul 2008]
Molecular Mass	73.4 kDa
AA Sequence	MAGPFSRLLSARPGRLRLLAGAGSLAAGFLLRPEPVRAASERRRLYPPSAEYPDLR KHNNCMASHLTPAVYARLCDKTTPTGWTLQDQCIQTGVDNPGHPFIKTVGMVAGDEE

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TYEVFADLFDPVIQERHNGYDPRTMKHTTDL DASKIRSGYFDERYVLSSRVRTGRSI
 RGLSLPPACTRAERREVERVVVDALSGLKGDLAGRYRLSEMTEAEQQQLIDDHFL
 FDKPVSPLLTAAGMARDWPDARGIWHNNEKSFLI WVNEEDHTRVISMEKGGNMKR
 VFERFCRGLKEVERLIQERGW EFMWNERLG YILTCPSNLGTGLRAGVHIKLP LLSKD
 SRFPKILENLRLQKRGTGGVDTAATGGVFDISNLDRLGKSEVELVQLVIDGVNYLIDC
 ERRLERGQDIRIPTPVIHTKH

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

CKMT1B creatine kinase, mitochondrial 1B [Homo sapiens]

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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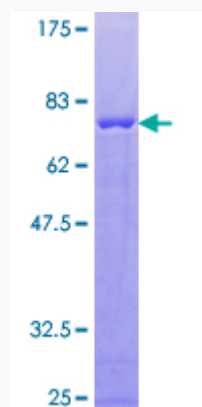
mRNA Refseq NM_020990

Protein Refseq NP_066270

MIM 123290

UniProt ID P12532

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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