

Recombinant Full Length Human CKMT1B Protein, GST-tagged

Cat. No. CKMT1B-1866HF **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	In Vitro Cell Free System
ProteinLength	417 amino acids
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

 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	MAGPFSRLLSARPGRLRLLAGAGSLAAGFLLRPEPVRAASERRRLYPPSAEYPDLR KHNNCMASHLTPAVYARLCDKTTPTGWTLDDQCIQTGVDNPGHPFIKTVGMVAGDEE TYEVFADLFDPVIQERHNGYDPRTMKHTTDLASKIRSGYFDERYVLSSRVRTGRSI RGLSLPPACTRAERREVERVVVDALSGLKGDLAGRYRLSEMTEAEQQQLIDHFL FDKPVSPLLTAAGMARDWPDARGIWHNNEKSFLIWWNEEDHTRVISMEKGGNMKR VFERFCRGLKEVERLIQERGWEFMWNERLG YILTCPSNLGTGLRAGVHIKPLLSKD SRFPKILENLRLQKRGTGGVDTAATGGVFDISNLDRLGKSEVELVQLVIDGVNYLIDC ERRLERGQDIRIPTVHHTKH
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
mRNA Refseq	NM_020990
Protein Refseq	NP_066270
MIM	123290
UniProt ID	P12532

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