

Full-Length

CKMT1B (Human) Recombinant Protein (P01)

Catalog # H00001159-P01 Size 25 ug, 10 ug

Applications



Specification	
Product Description	Human CKMT1B full-length ORF (NP_066270.1, 1 a.a 417 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAGPFSRLLSARPGLRLLALAGAGSLAAGFLLRPEPVRAASERRRLYPPSAEYPDLRKHNNCMA SHLTPAVYARLCDKTTPTGWTLDQCIQTGVDNPGHPFIKTVGMVAGDEETYEVFADLFDPVIQER HNGYDPRTMKHTTDLDASKIRSGYFDERYVLSSRVRTGRSIRGLSLPPACTRAERREVERVVVDA LSGLKGDLAGRYYRLSEMTEAEQQQLIDDHFLFDKPVSPLLTAAGMARDWPDARGIWHNNEKSF LIWVNEEDHTRVISMEKGGNMKRVFERFCRGLKEVERLIQERGWEFMWNERLGYILTCPSNLGTG LRAGVHIKLPLLSKDSRFPKILENLRLQKRGTGGVDTAATGGVFDISNLDRLGKSEVELVQLVIDGV NYLIDCERRLERGQDIRIPTPVIHTKH
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	73.4
Interspecies Antigen Sequence	Mouse (97); Rat (97)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.

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Product Information

Storage Buffer	50 mM Tris-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CKMT1B		
Entrez GenelD	<u>1159</u>	
GeneBank Accession#	<u>NM_020990.3</u>	
Protein Accession#	<u>NP_066270.1</u>	
Gene Name	CKMT1B	
Gene Alias	CKMT, CKMT1, UMTCK	
Gene Description	creatine kinase, mitochondrial 1B	
Omim ID	<u>123290</u>	
Gene Ontology	<u>Hyperlink</u>	
Gene Summary	Mitochondrial creatine (MtCK) kinase is responsible for the transfer of high energy phosphate fro m mitochondria to the cytosolic carrier, creatine. It belongs to the creatine kinase isoenzyme famil y. It exists as two isoenzymes, sarcomeric MtCK and ubiquitous MtCK, encoded by separate gen es. Mitochondrial creatine kinase occurs in two different oligomeric forms: dimers and octamers, i n contrast to the exclusively dimeric cytosolic creatine kinase isoenzymes. Many malignant cancer s with poor prognosis have shown overexpression of ubiquitous mitochondrial creatine kinase; thi s may be related to high energy turnover and failure to eliminate cancer cells via apoptosis. Ubiqu itous mitochondrial creatine kinase has 80% homology with the coding exons of sarcomeric mitoc hondrial creatine kinase. Two genes located near each other on chromosome 15 have been ident ified which encode identical mitochondrial creatine kinase proteins. [provided by RefSeq	



Product Information

Other Designations

OTTHUMP0000066275|acidic-type mitochondrial creatine kinase|creatine kinase, mitochondria I 1 (ubiquitous)|ubiquitous mitochondrial creatine kinase

Pathway

- Arginine and proline metabolism
- <u>Metabolic pathways</u>