

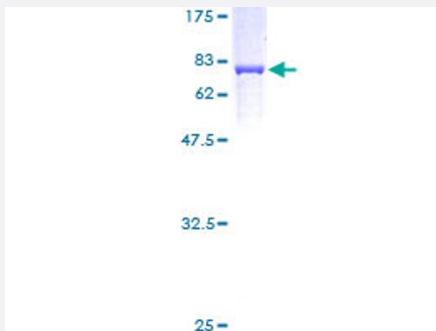
Full-Length

CKMT2 (Human) Recombinant Protein (P01)

Catalog # H00001160-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CKMT2 full-length ORF (AAH29140, 1 a.a. - 419 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MASIFSKLLTGRNASLLFATMGTSVLTGTYLLNRQKVCAEVREQPRLFPPSADYPDLRKHNNCMA
ECLTPAIYAKLRNKVTPNGYTLDDQCIQTGVDNPGHPFIKTVGMVAGDEESYEVFADLFDPVIKLRHN
GYDPRVMKHTTDL DASKITQQGFDEHYVLSSRVRTGRSIRGLSLPPACTRAERREVENVAITALEG
LKGDLAGRYYKLSEMT EQDQQRLIDDHFLDKPVSPLLTCAGMARDWPDARGMWHNYDKTFLWI
NEEDHTRVISM EKGGMKRVFERFCRGLKEVERLIQERGWEFMWNERLG YILTCPSNLGTGLRA
GVHVRIPKLSKDPRFSKILENLR LQKRG TG GVDTA AVADVYDISNIDRIGRSEVELVQVIDGVN YLV
DCEKKLERGQDIKVP PPLPQFGKK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

71.83

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.

Storage Buffer

50 mM Tris-HCl, 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 — CKMT2

Entrez GeneID [1160](#)

GeneBank Accession# [BC029140](#)

Protein Accession# [AAH29140](#)

Gene Name CKMT2

Gene Alias SMTCK

Gene Description creatine kinase, mitochondrial 2 (sarcomeric)

Omim ID [123295](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations OTTHUMP00000147542|basic-type mitochondrial creatine kinase|sarcomeric mitochondrial creatine kinase

Pathway

- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)