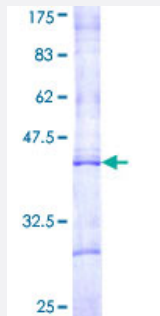


CPT1B (Human) Recombinant Protein (Q01)

Catalog # H00001375-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CPT1B partial ORF (NP_004368, 673 a.a. - 772 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	FLAEVLSEPWRLSTSQIPQSQIRMFDPEQHPNHLGAGGGFGPVADDGYGVSYMIAGENTIFFHISS KFSSETNAQRFGNHIRKALLDIADLFQVPKAYS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (87)
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 — CPT1B

Entrez GeneID [1375](#)

GeneBank Accession# [NM_004377](#)

Protein Accession# [NP_004368](#)

Gene Name CPT1B

Gene Alias CPT1-M, KIAA1670, M-CPT1, MCCPT1

Gene Description carnitine palmitoyltransferase 1B (muscle)

Omim ID [601987](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene, a member of the carnitine/choline acetyltransferase family, is the rate-controlling enzyme of the long-chain fatty acid beta-oxidation pathway in muscle mitochondria. This enzyme is required for the net transport of long-chain fatty acyl-CoAs from the cytoplasm into the mitochondria. Multiple transcript variants encoding different isoforms have been found for this gene, and read-through transcripts are expressed from the upstream locus that include exons from this gene. [provided by RefSeq]

Other Designations CPTI, muscle|carnitine O-palmitoyltransferase I, mitochondrial muscle isoform|carnitine palmitoyltransferase 1A (muscle)|carnitine palmitoyltransferase 1B

Pathway

- [Adipocytokine signaling pathway](#)
- [Fatty acid metabolism](#)

- [PPAR signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disorders of Excessive Somnolence](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Metabolic Syndrome X](#)
- [Narcolepsy](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)