CPT1B Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CPT1B, Blocking Peptide
Full Product Name	CPT1B Peptide - middle region
Product Gene Name	CPT1B blocking peptide
Product Synonym Gene Name	CPTI; CPT1M; MCPT1; CPT1-M; CPTI-M; M-CPT1; MCCPT1
Sequence	Synthetic peptide located within the following region: DSRHVAVYHK GRFFKLWLYE GARLLKPQDL EMQFQRILDD PSPPQPGEEK
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	CPT1B peptide (MBS3247819) is used for blocking the activity of CPT1B antibody (MBS3223173)
Molecular Weight	63 kDa
OMIM	601987
Product Categories/Family for CPT1B blocking peptide	Peptide
Related Product Information for CPT1B blocking peptide	This is a synthetic peptide designed for use in combination with anti- CPT1B Antibody, made Target Description: 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.
Other Notes	Small volumes of CPT1B blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CPT1B purchase	MBS3247819 is a blocking peptide targeting CPT1B. Also known as CPT1B Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPT1B. It may not necessarily be applicable to this product.

NCBI GI #	223468670
NCBI GeneID	1375
NCBI Accession #	NP_001138606.1
UniProt Primary Accession #	Q92523
UniProt Related Accession #	Q92523
GenBank Nucleotide #	NM_001145134.1
NCBI Official Full Name	carnitine O-palmitoyltransferase 1, muscle isoform isoform c

NCBI Official Synonym Full Names	carnitine palmitoyltransferase 1B
NCBI Official Symbol	CPT1B
NCBI Official Synonym Symbols	CPTI; CPT1M; MCPT1; CPT1-M; CPTI-M; M-CPT1; MCCPT1
UniProt Protein Name	Carnitine O-palmitoyltransferase 1, muscle isoform
UniProt Synonym Protein Names	Carnitine O-palmitoyltransferase I, muscle isoform; CPT I; CPTI-M; Carnitine palmitoyltransferase 1B; Carnitine palmitoyltransferase I-like protein
Protein Family	Carnitine O-palmitoyltransferase
UniProt Gene Name	CPT1B
UniProt Synonym Gene Names	KIAA1670; CPT1-M; CPT I; CPTI-M
UniProt Entry Name	CPT1B_HUMAN
NCBI Protein Information	carnitine O-palmitoyltransferase 1, muscle isoform
NCBI Summary for CPT1B	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, Jun 2009]
UniProt Comments for CPT1B	CPT1B: 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, Jun 2009] Protein type: Lipid Metabolism - fatty acid; Membrane protein, multi-pass; Membrane protein, integral; Transferase; EC 2.3.1.21 Chromosomal Location of Human Ortholog: 22q13.33 Cellular Component: mitochondrial outer membrane; mitochondrion; integral to membrane Molecular Function: carnitine O-palmitoyltransferase activity Biological Process: fatty acid beta-oxidation; cellular lipid metabolic process; carnitine shuttle
Research Articles on CPT1B	**1.** CPT1 is active on the outer surface of mitochondria and serves as a regulatory site for fatty acid oxidation due to its sensitivity for malonyl-CoA. CPT1b is the muscle isoform.
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