

Recombinant Human CPT1B

Cat. No. CPT1B-26102TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 673-772 of Human CPT1B with an N terminal proprietary tag; Predicted MWt 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
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.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Strong expression in heart and skeletal muscle. No expression in liver and kidney.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	FLAEVLSEPWRLSTSQIPQSQIRMFDP EQHPNHLGAGGGFGP VADDGYGVSYMIAG ENTIFFHISSKFSSSETNAQRFGNHIRKALLDIADLFQV PKAYS
Sequence Similarities	Belongs to the carnitine/choline acetyltransferase family.

GENE INFORMATION

Gene Name	CPT1B carnitine palmitoyltransferase 1B (muscle) [Homo sapiens]
Official Symbol	CPT1B
Synonyms	CPT1B; carnitine palmitoyltransferase 1B (muscle); carnitine O-palmitoyltransferase 1, muscle isoform; CPT1 M; M CPT1;
Gene ID	1375
mRNA Refseq	NM_001145134
Protein Refseq	NP_001138606
MIM	601987
Uniprot ID	Q92523
Chromosome Location	22q13.33

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Pathway	AMPK signaling, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Fatty Acid Beta Oxidation, organism-specific biosystem;
Function	carnitine O-palmitoyltransferase activity; transferase activity, transferring acyl groups;

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