

Recombinant Human CPT2

Cat. No. CPT2-26983TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 351-450 of Human CPT2, with a N terminal proprietary tag; predicted MWt 36.63 kDa inclusive of tag. AAH05172
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	The protein encoded by this gene is a nuclear protein which is transported to the mitochondrial inner membrane. Together with carnitine palmitoyltransferase I, the encoded protein oxidizes long-chain fatty acids in the mitochondria. Defects in this gene are associated with mitochondrial long-chain fatty-acid (LCFA) oxidation disorders.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids WFDKSFNLIIAKDGSTAIHFEHSWGDGVAVLRFFNEVFKDSTQTPAVTPQSQPATTD
STVTVQKLNFEELTDALKTGITAAKEKFDATMKTLTIDCVQFQR

Sequence Similarities Belongs to the carnitine/choline acetyltransferase family.

GENE INFORMATION

Gene Name CPT2 carnitine palmitoyltransferase 2 [Homo sapiens]

Official Symbol CPT2

Synonyms CPT2; carnitine palmitoyltransferase 2; carnitine palmitoyltransferase II , CPT1; carnitine O-palmitoyltransferase 2, mitochondrial; CPTASE;

Gene ID 1376

mRNA Refseq NM_000098

Protein Refseq NP_000089

MIM 600650

Uniprot ID P23786

Chromosome Location 1p32

Pathway Fatty Acid Beta Oxidation, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Import of palmitoyl-CoA into the mitochondrial matrix, organism-specific biosystem;

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Function

carnitine O-palmitoyltransferase activity; transferase activity, transferring acyl groups;

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