

Recombinant Human CPT1A Protein, DYKDDDDK-tagged

Cat. No. CPT1A-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein from the full-length sequence of Homo sapiens carnitine palmitoyltransferase 1A (CPT1A), transcript variant 1 (NM_001876), with a DYKDDDDK tag was expressed in human cells.
Species	Human
Source	Human Cells
Description	The mitochondrial oxidation of long-chain fatty acids is initiated by the sequential action of carnitine palmitoyltransferase I (which is located in the outer membrane and is detergent-labile) and carnitine palmitoyltransferase II (which is located in the inner membrane and is detergent-stable), together with a carnitine-acylcarnitine translocase. CPT I is the key enzyme in the carnitine-dependent transport across the mitochondrial inner membrane and its deficiency results in a decreased rate of fatty acid beta-oxidation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	88.2 kDa
Endotoxin	Endotoxin level is < 0.1 ng/μg of protein (<1EU/μg)
Purity	>90% by SDS-PAGE gel and Coomassie Blue staining
Applications	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies; For research & development use only!

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Storage Buffer

Purified protein formulated in a sterile solution of TBS buffer, pH7.4, without any preservatives

GENE INFORMATION
Gene Name

CPT1A carnitine palmitoyltransferase 1A [Homo sapiens (human)]

Official Symbol

CPT1A

Synonyms

CPT1A; carnitine palmitoyltransferase 1A; CPT1; CPT1-L; L-CPT1; carnitine O-palmitoyltransferase 1, liver isoform; CPT I; CPTI-L; carnitine palmitoyltransferase 1A (liver); carnitine palmitoyltransferase I, liver; EC 2.3.1.21

Gene ID

1374

mRNA Refseq

NM_001876

Protein Refseq

NP_001867

MIM

600528

UniProt ID

P50416

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