

Recombinant Human CPT1A Protein, Myc/DDK-tagged

Cat. No. CPT1A-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human carnitine palmitoyltransferase 1A (liver) (CPT1A), nuclear gene encoding mitochondrial protein, transcript variant 1 with a C-Myc/DDK tag was expressed in HEK293T.
Species	Human
Source	HEK293
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
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

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](#)

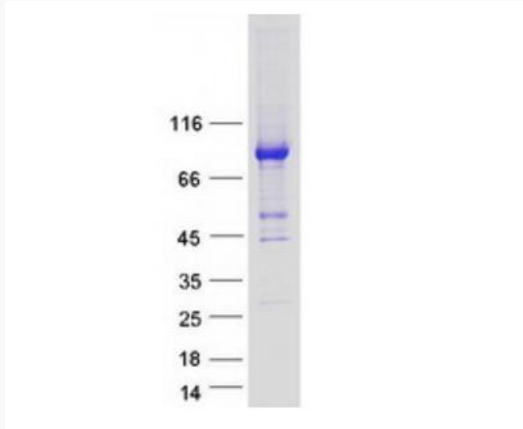
MIM [600528](#)

UniProt ID [P50416](#)

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SDS-PAGE

Coomassie blue staining of purified CPT1A protein. The protein was produced from HEK293T cells transfected with CPT1A cDNA clone using MegaTran 2.0.

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