

## Product datasheet for TP321740M

### CPT1A (NM\_001876) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human carnitine palmitoyltransferase 1A (liver) (CPT1A), nuclear gene encoding mitochondrial protein, transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC221740 representing NM_001876 Red=Cloning site Green=Tags(s)

MAEAHQAVAFQFTVTPDGIDLRLSHEALRQIYLSGLHSWKKKFFIRFKNGIITGVYPASPSSWLIVVGVMTTMYAKIDPSLGIIAKINRTLETANCMSSQTKNVVSGVLFGTGLWVALIVTMRYSLKVLVSYHGWMFTEHGKMSRATKIWMGMVKIFSGRKPMLYSFQTSLPRLPVPVAVKDTVNRYLQSVRPLMKEEDFKRMTALAQDFAVGLGPRLQWYLKLSWWATNYVSDWWEYIYLRGRGPLMVNSNYAMDLLYILPTHIQAARAGNAIHAILYRRKLDREEIKPIRLLGSTIPLCSAQWERMFNSTRIPGEETDTIQHMRDSKHIVVYHRGRYFKWVLYHGRLLKPREMEQQMQRILDNTSEPQPGEARLAALTAGDRVPWARCRQAYFGRGKKNKQSLDAVEKAAFFVTLDETEGYRSEDPDTSMDSYAKSLLHGRCYDRWFDKSFTFVVFKNKMGMLNAEHSWADAPIVAHLWEYVMSIDSLQLGYAEDGHCKGDINPNIPYPTRLQWDIPGECQEVIELNTANLLANDVDFHSFPFVAFGKGIKKCRTSPDAFVQLALQLAHYKDMGKFCLTYEASMTRLFREGRTETVRSCTTESCDFVRAMVDPAQTVEQRLKLFKLASEKHQHMRYLAMTGSGIDRHLFCLYVSKYLAVESPFLKEVLSEPWRLSTSQTTPQQVELFDLENNPEYVSSGGGFGPVADDGYGVSYILVGENLINFHISKFSCPETDSHRFGRHLKEAMTDIITLFGGLSSNSKK

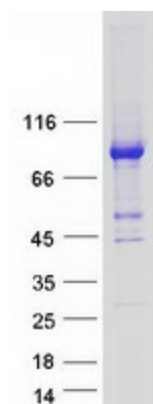
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	88.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001867</a>
<b>Locus ID:</b>	1374
<b>UniProt ID:</b>	<a href="#">P50416</a> , <a href="#">A0A024R5F4</a> , <a href="#">Q8WZ48</a> , <a href="#">B2RAQ8</a>
<b>RefSeq Size:</b>	2941
<b>Cytogenetics:</b>	11q13.3
<b>RefSeq ORF:</b>	2319
<b>Synonyms:</b>	CPT1; CPT1-L; L-CPT1
<b>Summary:</b>	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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, Fatty acid metabolism, PPAR signaling pathway

**Product images:**

Coomassie blue staining of purified CPT1A protein (Cat# [TP321740]). The protein was produced from HEK293T cells transfected with CPT1A cDNA clone (Cat# [RC221740]) using MegaTran 2.0 (Cat# [TT210002]).