

Product datasheet for PH321740

CPT1A (NM_001876) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CPT1A MS Standard C13 and N15-labeled recombinant protein (NP_001867)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221740
Predicted MW:	88.2 kDa
Protein Sequence:	>RC221740 representing NM_001876 Red=Cloning site Green=Tags(s)

MAEAHQAVAFQFTVTPDGIDLRLSHEALRQIYLSGLHSWKKKIFIRFKNGIITGVYPASPSSWLIVVGVMTTMYAKIDPSLGIIAKINRTLETANCMSSQTKNVVSGVLFGTGLWVALIVTMRYSLKVLLSYHGWMFTEHGKMSRATKIWMGMVKIFSGRKPLYSFQTSPLPRLPVPVAVKDTVNRYLQSVRPLMKEEDFKRMTALAQDFAVGLGPRLQWYLKLSWWATNYVSDWWEYIYLRGRGPLMVNSNYAMDLLYILPHTHIQAARAGNAIHAILLYRRKLDREEIKPIRLLGSTIPLCSAQWERMFNSTRIPGEETDTIQHMRDSKHIVVYHRGRYFKVWLYHGRLLKPREMEQQMQRILDNTSEPQPGEARLAALTAGDRVPWARCRQAYFGRGKKNQSLDAVEKAAFFVTLDETEEGYRSEDPDTSMDSYAKSLLHGRCYDRWFDKSFTFVVFKNKMGMLNAEHSWADAPIVAHLWEYVMSIDSLQLGYAEDGHCKGDINPNIPYPTRLQWDIPGECQEVETSLNTANLLANDVDFHSFPFVAFGKGIKICRTSPDAFVQLALQLAHYKDMGKFLTYEASMTRLFREGRTETVRSCTTESCDFVRAMVPAQTVEQRLKLFKLASEKHQHMRYLAMTGSIDRHLFCLYVVSXYLAVESPFLKEVLSEPWRLSTSQTPOQQVELFDLENNPEYVSSGGGFGPVADDGYGVSYILVGENLINFHISSKFSCPETDSHRFGRHLKEAMTDIITLFLGLSSNSKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001867



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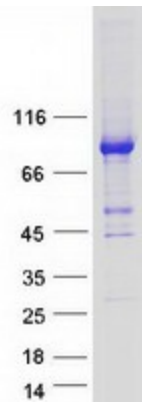
RefSeq Size:	2941
RefSeq ORF:	2319
Synonyms:	CPT1; CPT1-L; L-CPT1
Locus ID:	1374
UniProt ID:	P50416 , A0A024R5F4 , Q8WZ48 , B2RAQ8
Cytogenetics:	11q13.3

Summary: 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]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: 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]).