

Datasheet

Human CPT1A Recombinant Protein

Catalog Number: BGT-PPT-17692

Regulation Status: For research use only (RUO)

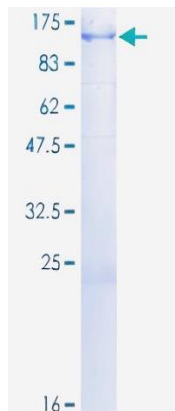
Product Description: Human CPT1A full-length ORF (NP_001867.2, 1 a.a. - 773 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MAEAHQAVAFQFTVTPDGIDLRLSHEALRQIYLSGLHS
 WKKKFIRFKNGIITGVYPASPSSWLIVVVGVMTTMYAKI
 DPSLGIIAKINRTLETANCMSSQTKNVVSGVLFGTGLW
 VALIVTMRYSLKVLLSYHGWMFTEHGKMSRATKIWMG
 MVKIFSGRKPMLYSFQTSPLRPLPVPVAVKDTVNRYLQS
 VRPLMKEEDFKRMTALAQDFAVGLGPRLQWYLKLS
 WWATNYVSDWWEYIYLRGRGPLMVNSNYAMDLLY
 ILPTHIQAARAGNAIHAILLYRRKLDREEIKPIRLLGSTIP
 LCSAQWERMFNSTRIPGEETDTIQHMRDSKHIVVYHR
 GRYFKVWLYHDGRLLKPREMEQQMQRILDNTSEPQP
 GEARLAALTAGDRVPWARCRQAYFGRGKNKQSLDAV
 EKAFFVTLDETEEGYRSEDPDTSMDSYAKSLLHGRC
 YDRWFDKSFTFVVKNGKMGMLNAEHSWADAPIVAHL
 WEYVMSIDSLQLGYAEDGHCKGDINPNIPYPTRLQWDI
 PGECQEVIELNTANLLANDVDFHSPFVAFGKGIKK
 CRTSPDAFVQLALQLAHYKDMGKFCLTYEASMTLFR
 EGRTETVRSCCTTESCDFVRAMVDPAQTVEQRLKFLK
 ASEKHQHMRYLAMTGSIDRHLFCLYVVSXYLAVESP
 FLKEVLSEPWRLSTSQTPTQQVELFDLENNPEYVSSG
 GGFGPVADDGYGVSYILVGENLINFHISSKFSCPETDS
 HRFGRHLKEAMTDIITLFLGLSSNSKK

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 114.8



Applications: AP, Array, ELISA, WB-Re

Preparation Method: in vitro wheat germ expression system

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 1374

Gene Symbol: CPT1A

Gene Alias: CPT1, CPT1-L, L-CPT1

Gene 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]