

Human Carnitine palmitoyltransferase I ELISA Kit | CPT 1 elisa kit

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CATALOG #
AAA16196

REACTIVITY
Human

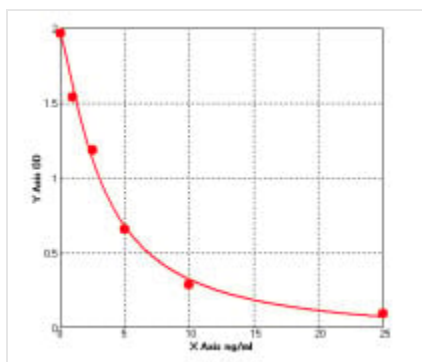
PRODUCT SYNONYMS

Carnitine palmitoyltransferase I; Human Carnitine palmitoyltransferase I ELISA Kit; CPT 1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CPTI. No significant cross-reactivity or interference between CPTI and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CPTI and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CPT 1 elisa kit	Principle of the Assay: CPTI ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CPTI antibody and an CPTI-HRP conjugate. The assay sample and buffer are incubated together with CPTI-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CPTI concentration since CPTI from samples and CPTI-HRP conjugate compete for the anti-CPTI antibody binding site. Since the number of sites is limited, as more sites are occupied by CPTI from the sample, fewer sites are left to bind CPTI-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CPTI concentration in each sample is interpolated from this standard curve. Intended Uses: This CPTI ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CPTI. This ELISA kit for research use only, not for therapeutic or diagnostic applications!
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NCBI AND UNIPROT INFORMATION

NCBI GI #	146345405
NCBI GeneID	25757
Molecular Weight	88,125 Da
NCBI Official Full Name	Carnitine O-palmitoyltransferase 1, liver isoform
NCBI Official Synonym Full Names	carnitine palmitoyltransferase 1a, liver
NCBI Official Symbol	Cpt1a
NCBI Official Synonym Symbols	CPT-1a
NCBI Protein Information	carnitine O-palmitoyltransferase 1, liver isoform; CPT I; CPT1-L; CPTI-L; carnitine palmitoyltransferase 1, liver; carnitine O-palmitoyltransferase I, liver isoform; Carnitine palmitoyltransferase 1 alpha, liver isoform
UniProt Protein Name	Carnitine O-palmitoyltransferase 1, liver isoform
UniProt Gene Name	Cpt1a
UniProt Synonym Gene Names	Cpt-1; Cpt1; CPT1-L; CPT I; CPTI-L
UniProt Entry Name	CPT1A_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.