

Human Carnitine Palmitoyltransferase 1A, Liver (CPT1A) ELISA Kit | CPT1A elisa kit

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CATALOG #
AAA186817

REACTIVITY
Human

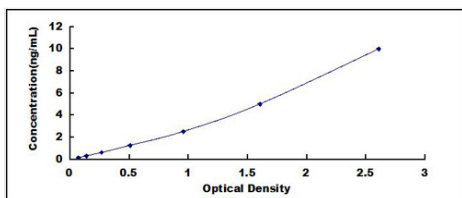
PRODUCT SYNONYMS

Carnitine Palmitoyltransferase 1A; Liver (CPT1A); Human Carnitine Palmitoyltransferase 1A; Liver (CPT1A) ELISA Kit; CPT1-L; Carnitine O-palmitoyltransferase I; liver isoform; CPT1A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Carnitine Palmitoyltransferase 1A, Liver (CPT1A). No significant cross-reactivity or interference between Carnitine Palmitoyltransferase 1A, Liver (CPT1A) and analogues was observed.
Sequence Length	756
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.059ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Carnitine Palmitoyltransferase 1A, Liver (CPT1A) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Carnitine Palmitoyltransferase 1A, Liver (CPT1A) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CPT1A elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Carnitine Palmitoyltransferase 1A, Liver (CPT1A). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Carnitine Palmitoyltransferase 1A, Liver (CPT1A). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Carnitine Palmitoyltransferase 1A, Liver (CPT1A), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Carnitine Palmitoyltransferase 1A, Liver (CPT1A) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	119595128
NCBI GeneID	1374
UniProt Accession #	P50416; Q8TCU0; Q9BWK0
Molecular Weight	86,239 Da
NCBI Official Full Name	carnitine palmitoyltransferase 1A (liver), isoform CRA_a
NCBI Official Synonym Full Names	carnitine palmitoyltransferase 1A
NCBI Official Symbol	CPT1A
NCBI Official Synonym Symbols	CPT1; CPT1-L; L-CPT1
NCBI Protein Information	carnitine O-palmitoyltransferase 1, liver isoform
UniProt Protein Name	Carnitine O-palmitoyltransferase 1, liver isoform
UniProt Gene Name	CPT1A
UniProt Synonym Gene Names	CPT1; CPT1-L; CPT I; CPTI-L

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/carnitine-palmitoyltransferase-1a-liver-cpt1a/186817>