

Canine Carnitine palmitoyltransferase I ELISA Kit | CPT-1 elisa kit

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CATALOG #
AAA93813

REACTIVITY
Canine

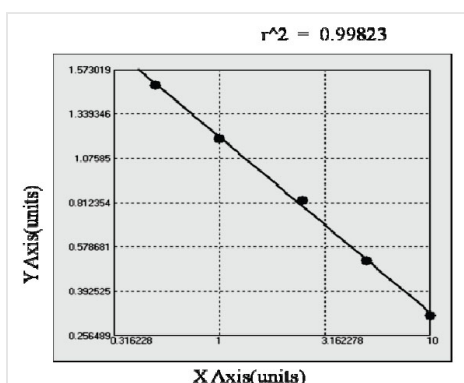
PRODUCT SYNONYMS

Carnitine palmitoyltransferase I; Canine Carnitine palmitoyltransferase I ELISA Kit; CPT-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	0.1 ng/mL.
Intended Uses	This CPT-1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine CPT-1. This ELISA kit for research use only, not for therapeutic applications!
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: CPT-1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-CPT-1 antibody and an CPT-1-HRP conjugate. The assay sample and buffer are incubated together with CPT-1-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 CPT-1 concentration since CPT-1 from samples and CPT-1-HRP conjugate compete for the anti-CPT-1 antibody binding site. Since the number of sites is limited, as more sites are occupied by CPT-1 from the sample, fewer sites are left to bind CPT-1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CPT-1 concentration in each sample is interpolated from this standard curve.

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.

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Online datasheet: <https://stage.aaabiotech.com/cpt-1-canine-elisa-kits/carnitine-palmitoyltransferase-i/93813>