

Human Carnitine O acetyltransferase/Carnitine acetylase (C/CAT1) ELISA Kit | C elisa kit

Human Carnitine O acetyltransferase/Carnitine acetylase (C/CAT1) ELISA Kit

CATALOG #
AAA246025

REACTIVITY
Human

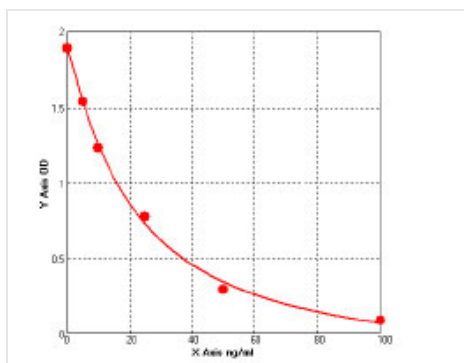
PRODUCT SYNONYMS

Carnitine O acetyltransferase/Carnitine acetylase (C/CAT1); Human Carnitine O acetyltransferase/Carnitine acetylase (C/CAT1) ELISA Kit; C elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, Plasma, Cell Culture Supernatants, Body Fluid And Tissue Homogenate
Assay Type	Quantitative Competitive
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 C elisa kit

Intended Uses: This CAT ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat CAT. This ELISA kit for research use only!

Principle of the Assay: CAT ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CAT antibody and an CAT-HRP conjugate. The assay sample and buffer are incubated together with CAT-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 CAT concentration since CAT from samples and CAT-HRP conjugate compete for the anti-CAT antibody binding site. Since the number of sites is limited, as more sites are occupied by CAT from the sample, fewer sites are left to bind CAT-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CAT concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21618331
NCBI GeneID	1384
NCBI Accession #	NP_000746.2
NCBI GenBank Nucleotide #	NM_000755.3
Molecular Weight	61,870 Da
NCBI Official Full Name	carnitine O-acetyltransferase isoform 1
NCBI Official Synonym Full Names	carnitine O-acetyltransferase
NCBI Official Symbol	CRAT
NCBI Official Synonym Symbols	CAT1
NCBI Protein Information	carnitine O-acetyltransferase; CAT; carnitine acetylase; carnitine acetyltransferase
UniProt Protein Name	Carnitine O-acetyltransferase
UniProt Gene Name	CRAT
UniProt Synonym Gene Names	CAT1; Carnitine acetylase; CAT; CrAT
UniProt Entry Name	CACP_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/carnitine-o-acetyltransferase-carnitine-acetylase-c-cat1/246025>