

Rat 12-Lipoxygenase ELISA Kit | LOX-12 elisa kit

Rat 12-Lipoxygenase ELISA Kit

CATALOG #
AAA83519

REACTIVITY
Rat

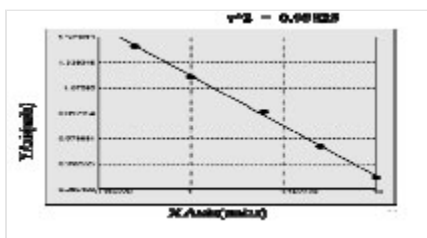
PRODUCT SYNONYMS

12-Lipoxygenase; Rat 12-Lipoxygenase ELISA Kit; LOX-12 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Sandwich
Detection Range	2.5-50ng/mL
Sensitivity	0.1ng/ml
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LOX-12 elisa kit

Intended Uses: This LOX12 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat LOX12. This ELISA kit for research use only!

Principle of the Assay: LOX12 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-LOX12 antibody and an LOX12-HRP conjugate. The assay sample and buffer are incubated together with LOX12-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 LOX12 concentration since LOX12 from samples and LOX12-HRP conjugate compete for the anti-LOX12 antibody binding site. Since the number of sites is limited, as more sites are occupied by LOX12 from the sample, fewer sites are left to bind LOX12-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The LOX12 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #

553159

NCBI GeneID	246
Molecular Weight	74,804 Da
NCBI Official Full Name	12-lipoxygenase, partial
NCBI Official Synonym Full Names	arachidonate 15-lipoxygenase
NCBI Official Symbol	ALOX15
NCBI Official Synonym Symbols	12-LOX; 15LOX-1; 15-LOX-1
NCBI Protein Information	arachidonate 15-lipoxygenase; 15-LOX; 12/15-lipoxygenase; 15-lipoxygenase-1; arachidonate omega-6 lipoxygenase; arachidonate 12-lipoxygenase, leukocyte-type
UniProt Protein Name	Arachidonate 15-lipoxygenase
UniProt Gene Name	ALOX15
UniProt Synonym Gene Names	LOG15; 15-LOX; 15-LOX-1; 12-LOX
UniProt Entry Name	LOX15_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.

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Online datasheet: <https://stage.aaabiotech.com/lox-12-rat-elisa-kits/12-lipoxygenase/83519>