

Human 5 lipoxygenase ELISA Kit | 5 LO/LOX elisa kit

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CATALOG #
AAA83778

REACTIVITY
Human

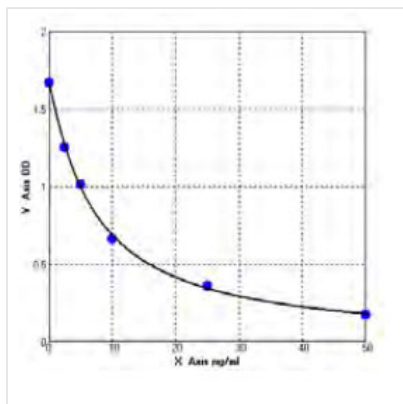
PRODUCT SYNONYMS

5 lipoxygenase; Human 5 lipoxygenase ELISA Kit; 5 LO/LOX elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of LOX15. No significant cross-reactivity or interference between LOX15 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between LOX15 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 5 LO/LOX elisa kit	Principle of the Assay: LOX15 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-LOX15 antibody and an LOX15-HRP conjugate. The assay sample and buffer are incubated together with LOX15-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 LOX15 concentration since LOX15 from samples and LOX15-HRP conjugate compete for the anti-LOX15 antibody binding site. Since the number of sites is limited, as more sites are occupied by LOX15 from the sample, fewer sites are left to bind LOX15-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The LOX15 concentration in each sample is interpolated from this standard curve. Intended Uses: This LOX15 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human LOX15. This ELISA kit for research use only, not for therapeutic or test applications!
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NCBI AND UNIPROT INFORMATION

NCBI GI #	187167
NCBI GeneID	240
Molecular Weight	56,291 Da
NCBI Official Full Name	5-lipoxygenase, partial
NCBI Official Synonym Full Names	arachidonate 5-lipoxygenase
NCBI Official Symbol	ALOX5
NCBI Official Synonym Symbols	5-LO; 5LPG; LOG5; 5-LOX
NCBI Protein Information	arachidonate 5-lipoxygenase; LOX-5; leukotriene A4 synthase; arachidonic acid 5-lipoxygenase; arachidonic 5-lipoxygenase alpha-10 isoform; arachidonic 5-lipoxygenase delta-13 isoform; arachidonic 5-lipoxygenase delta-p10 isoform; arachidonic 5-lipoxygenase delta-10-13 isoform
UniProt Protein Name	Arachidonate 5-lipoxygenase
UniProt Gene Name	ALOX5
UniProt Synonym Gene Names	LOG5; 5-LO; 5-lipoxygenase
UniProt Entry Name	LOX5_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/5-lo-lox-human-elisa-kits/5-lipoxygenase/83778>