

Sheep 5-lipoxygenase ELISA Kit | 5-LO elisa kit

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CATALOG #
AAA89884

REACTIVITY
Sheep

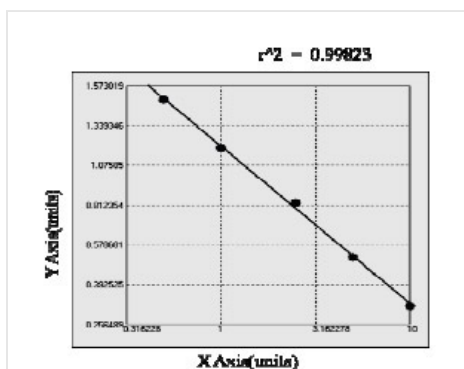
PRODUCT SYNONYMS

5-lipoxygenase; Sheep 5-lipoxygenase ELISA Kit; 5-LO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Sheep
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	0.1 ng/mL.
Intended Uses	This 5-LO ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Sheep 5-LO. 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 5-LO elisa kit

Principle of the Assay: 5-LO ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-5-LO antibody and an 5-LO-HRP conjugate. The assay sample and buffer are incubated together with 5-LO-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 5-LO concentration since 5-LO from samples and 5-LO-HRP conjugate compete for the anti-5-LO antibody binding site. Since the number of sites is limited, as more sites are occupied by 5-LO from the sample, fewer sites are left to bind 5-LO-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The 5-LO concentration in each sample is interpolated from this standard curve.

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-sheep-elisa-kits/5-lipoxygenase/89884>