

## Bovine Arachidonate 5-lipoxygenase ELISA Kit | ALOX-5 elisa kit

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CATALOG #  
**AAA91184**

REACTIVITY  
**Bovine**

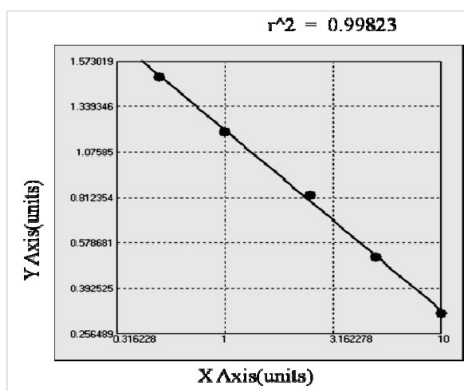
### PRODUCT SYNONYMS

Arachidonate 5-lipoxygenase; Bovine Arachidonate 5-lipoxygenase ELISA Kit; ALOX-5 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Bovine                                                                                                                                                                                    |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate                                                                                                                |
| Assay Type              | Competitive                                                                                                                                                                               |
| Sensitivity             | 0.1 ng/mL.                                                                                                                                                                                |
| Intended Uses           | This ALOX5 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Bovine ALOX5. 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 ALOX-5 elisa kit

**Principle of the Assay:** ALOX5 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-ALOX5 antibody and an ALOX5-HRP conjugate. The assay sample and buffer are incubated together with ALOX5-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 ALOX5 concentration since ALOX5 from samples and ALOX5-HRP conjugate compete for the anti-ALOX5 antibody binding site. Since the number of sites is limited, as more sites are occupied by ALOX5 from the sample, fewer sites are left to bind ALOX5-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ALOX5 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 124376534                                                                                                                                                                                                                                                                            |
| NCBI GeneID                      | 240                                                                                                                                                                                                                                                                                  |
| Molecular Weight                 | 56,291 Da                                                                                                                                                                                                                                                                            |
| NCBI Official Full Name          | Arachidonate 5-lipoxygenase                                                                                                                                                                                                                                                          |
| 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                | <b>ALOX5</b>                                                                                                                                                                                                                                                                         |
| 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/alox-5-bovine-ovine-elisa-kits/arachidonate-5-lipoxygenase/91184>