

Rat Arachidonate 5-Lipoxygenase ELISA Kit | 5-LO elisa kit

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CATALOG #
AAA101444

REACTIVITY
Rat

PRODUCT SYNONYMS

Arachidonate 5-Lipoxygenase; Rat Arachidonate 5-Lipoxygenase ELISA Kit; 5-LO/Alox5/5-LO/5LPG/LOG5/LOX5A/5-lipoxygenase/5-LOX/arachidonic 5-lipoxygenase alpha-10 isoform/arachidonic 5-lipoxygenase delta-10-13 isoform/arachidonic 5-lipoxygenase delta-13 isoform/arachidonic 5-lipoxygenase delta-p10 isoform/arachidonic acid 5-lipoxygenase/leukotriene A4 synthase/LOG5; 5-LO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of 2, 5-OAS. No significant cross-reactivity or interference between 2, 5-OAS and analogues was observed.
Sequence Length	673
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level 2, 5-OAS were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level 2, 5-OAS were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a 5-LO ELISA kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A/not applicable)

X	ng/ml	0	0.156	0.312	0.625	1.25	2.5	5	10
Y	OD 450	0.074	0.179	0.311	0.555	0.926	1.597	2.132	2.653

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for 5-LO elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-2, 5-OAS antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-2, 5-OAS antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the 2, 5-OAS amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of 2, 5-OAS can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	528078462
NCBI GeneID	101839970
NCBI Accession #	NP_001268516.1
NCBI GenBank Nucleotide #	NM_001281587.1
Molecular Weight	77,873 Da
NCBI Official Full Name	arachidonate 5-lipoxygenase
NCBI Official Symbol	Alox5
NCBI Official Synonym Symbols	5-LO
NCBI Protein Information	arachidonate 5-lipoxygenase
UniProt Protein Name	Arachidonate 5-lipoxygenase
UniProt Gene Name	ALOX5
UniProt Synonym Gene Names	5-LO; 5-lipoxygenase
UniProt Entry Name	LOX5_MESAU

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/5-lo-rat-elisa-kits/arachidonate-5-lipoxygenase/101444>