

Mouse Alpha-aminoadipic semialdehyde dehydrogenase (ALDH7A1) ELISA Kit | ALDH7A1 elisa kit

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CATALOG # AAA246933	REACTIVITY Mouse
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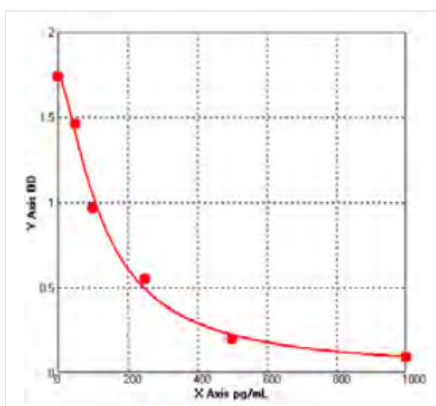
PRODUCT SYNONYMS

Alpha-aminoadipic semialdehyde dehydrogenase (ALDH7A1); Mouse Alpha-aminoadipic semialdehyde dehydrogenase (ALDH7A1) ELISA Kit; ALDH7A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of ALDH7A1. No significant cross-reactivity or interference between ALDH7A1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ALDH7A1 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	1.0 pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ALDH7A1 elisa kit	Principle of the Assay: ALDH7A1 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-ALDH7A1 antibody and an ALDH7A1-HRP conjugate. The assay sample and buffer are incubated together with ALDH7A1-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 ALDH7A1 concentration since ALDH7A1 from samples and ALDH7A1-HRP conjugate compete for the anti-ALDH7A1 antibody binding site. Since the number of sites is limited, as more sites are occupied by ALDH7A1 from the sample, fewer sites are left to bind ALDH7A1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ALDH7A1 concentration in each sample is interpolated from this standard curve. Intended Uses: This ALDH7A1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse ALDH7A1. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for ALDH7A1 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	188035924
NCBI GeneID	501
NCBI Accession #	NP_001173.2
NCBI GenBank Nucleotide #	NM_001182.4
Molecular Weight	53,987 Da
NCBI Official Full Name	alpha-aminoadipic semialdehyde dehydrogenase isoform 1
NCBI Official Synonym Full Names	aldehyde dehydrogenase 7 family, member A1
NCBI Official Symbol	ALDH7A1
NCBI Official Synonym Symbols	EPD; PDE; ATQ1
NCBI Protein Information	alpha-aminoadipic semialdehyde dehydrogenase; antiquitin-1; P6c dehydrogenase; alpha-AASA dehydrogenase; 26g turgor protein homolog; betaine aldehyde dehydrogenase; delta1-piperideine-6-carboxylate dehydrogenase
UniProt Protein Name	Alpha-aminoadipic semialdehyde dehydrogenase
UniProt Gene Name	ALDH7A1
UniProt Synonym Gene Names	ATQ1; Alpha-AASA dehydrogenase; P6c dehydrogenase
UniProt Entry Name	AL7A1_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/mouse-elisa-kits/alpha-aminoadipic-semialdehyde-dehydrogenase-aldh7a1/246933>