

Human Long-Chain-Fatty-Acid--CoA Ligase 1 (ACSL1) ELISA Kit | ACSL1 elisa kit

Human Long-Chain-Fatty-Acid--CoA Ligase 1 (ACSL1) ELISA Kit

CATALOG #
AAA331078

REACTIVITY
Human

PRODUCT SYNONYMS

Long-Chain-Fatty-Acid--CoA Ligase 1 (ACSL1); Human Long-Chain-Fatty-Acid--CoA Ligase 1 (ACSL1) ELISA Kit; ACSL1; ACS1; FACL1; FACL2; LACS; LACS1; LACS2; fatty-acid-Coenzyme A ligase; long-chain 1; long-chain 2; lignoceroyl-CoA synthase; long-chain acyl-CoA synthetase 1; long-chain acy; ACSL1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Long-chain-fatty-acid--CoA ligase 1 (ACSL1) ELISA Kit has high sensitivity and excellent specificity for detection of Human ACSL1. No significant cross-reactivity or interference between Human ACSL1 and analogues was observed.
Sequence Length	698
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Long-chain-fatty-acid--CoA ligase 1 (ACSL1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ACSL1 elisa kit	Description: This Human Long-chain-fatty-acid--CoA ligase 1 (ACSL1) ELISA Kit employs a two-site sandwich ELISA to quantitate ACSL1 in samples. An antibody specific for ACSL1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ACSL1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACSL1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ACSL1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Long-chain-fatty-acid--CoA ligase 1 is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. In melanocytic cells ACSL1 gene expression may be regulated by MITF. Activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. Preferentially uses palmitoleate, oleate and linoleate. Highly expressed in liver, heart, skeletal muscle, kidney and erythroid cells, and to a lesser extent in brain, lung, placenta and pancreas.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	417241
NCBI GeneID	2180
UniProt Accession #	P33121
NCBI Official Full Name	Long-chain-fatty-acid--CoA ligase 1
NCBI Official Synonym Full Names	acyl-CoA synthetase long chain family member 1
NCBI Official Symbol	ACSL1
NCBI Official Synonym Symbols	ACS1; LACS; FACL1; FACL2; LACS1; LACS2
NCBI Protein Information	long-chain-fatty-acid--CoA ligase 1
UniProt Protein Name	Long-chain-fatty-acid--CoA ligase 1
UniProt Gene Name	ACSL1
UniProt Synonym Gene Names	FACL1; FACL2; LACS; LACS1; LACS2; ACS1; LACS 1; LACS 2
UniProt Entry Name	ACSL1_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/human-elisa-kits/long-chain-fatty-acid-coa-ligase-1-acsl1/331078>