Acyl-Coa Synthetase Family Member 4 (AASDH) ELISA Kit for Human

PRODUCT OVERVIEW

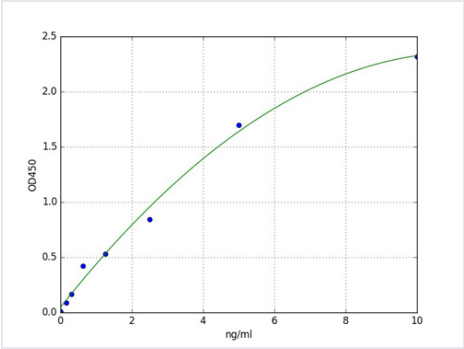
Product Name	Acyl-CoA synthetase family member 4 (AASDH), ELISA Kit
Full Product Name	Human Acyl-CoA synthetase family member 4 ELISA Kit
Product Gene Name	AASDH elisa kit
Product Synonym Names	AASDH/HSPC318/ACSF4/U26/Protein NRPS998/Protein NRPS998
Species Reactivity	Human
Assay Type	Sandwich ELISA, 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
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
Molecular Weight	96,217 Da
OMIM	614365
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for AASDH elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. anti-Human AASDH antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human AASDH antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash 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 Human AASDH amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human AASDH can be calculated.
Other Notes	Small volumes of AASDH elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AASDH purchase	MBS760313 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Acyl-CoA synthetase family member 4 (AASDH) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing AASDH. The ELISA analytical biochemical technique of the MBS760313 kit is based on AASDH antibody-AASDH antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect AASDH antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, AASDH. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

Typical Data & Standard Curve

Results of a typical standard run of a Human AASDH ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.156	0.313	0.625	1.25	2.5	5	10
Y	OD450	0.056	0.113	0.195	0.264	0.481	0.911	1.488	2.290

Typical Testing Data of AASDH elisa kit



Typical Standard Curve of AASDH elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AASDH. It may not necessarily be applicable to this product.

NCBI GI #	557786117
NCBI GeneID	132949
NCBI Accession #	NP_001273599.1
UniProt Secondary Accession #	Q63HK2; Q63HR7; Q6IPP8; Q6TFZ6; Q7Z5Y3; Q96BW4; Q9P064; A5D8V3; A5PL22
UniProt Related Accession #	Q4L235
GenBank Nucleotide #	NM_001286670.1
NCBI Official Full Name	acyl-CoA synthetase family member 4 isoform 4
NCBI Official Synonym Full Names	aminoadipate-semialdehyde dehydrogenase
NCBI Official Symbol	AASDH
NCBI Official Synonym Symbols	LYS2; ACSF4; NRPS998; NRPS1098
UniProt Protein Name	Acyl-CoA synthetase family member 4
UniProt Synonym Protein Names	Aminoadipate-semialdehyde dehydrogenase; Protein NRPS998
Protein Family	Acyl-CoA synthetase family
UniProt Gene Name	AASDH
UniProt Synonym Gene Names	ACSF4; U26
UniProt Entry Name	ACSF4_HUMAN
NCBI Protein Information	acyl-CoA synthetase family member 4
UniProt Comments for AASDH	AASDH: Acyl-CoA synthases catalyze the initial reaction in fatty acid metabolism, by forming a thioester with CoA. Belongs to the ATP-dependent AMP-binding enzyme family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Amino Acid Metabolism - lysine biosynthesis; Oxidoreductase; Ligase; EC 1.2.1.31; Amino Acid Metabolism - lysine degradation Chromosomal Location of Human Ortholog: 4q12 Molecular Function: acid-thiol ligase activity; ATP binding Biological Process: fatty acid metabolic process
Research Articles on AASDH	**1.** ACSF4 (U26) is a beta-alanine activating enzyme homologous to bacterial nonribosomal peptide synthetase. Experiments using the mouse protein suggest this enzyme may be involved in a rare intracellular reaction, possibly an infrequent post-translational or post-transcriptional modification.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/aasdh-human-elisa-kits/acyl-coa-synthetase-family-member-4/760313