Scd4 ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	sCD4, ELISA Kit
Full Product Name	Human sCD4 ELISA Kit
Product Gene Name	SCD4 elisa kit
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Detection Range	5.0ng/ml-160ng/ml
Sensitivity	1.0ng/ml
Specificity	No significant cross-reactivity or interference between this analyte and analogues is observed.
Preparation and Storage	Store all reagents at 2-8 degree C
Inter-assay Precision	Inter-assay CV (%) is less than 15%. [CV(%) = SD/mean ×100].
Intra-assay Precision	Intra-assay CV (%) is less than 15%.
Molecular Weight	37,610 Da
OMIM	608370
3D Structure	ModBase 3D Structure for Q86SK9
Related Product Information for SCD4 elisa kit	Background: This Quantitative Sandwich ELISA kit is only for in vitro research use only! This kit is intended to be used for determination the level of SCD4 (hereafter termed "analyte") in undiluted original Human body fluids, tissue homogenates, secretions or feces samples. This kit is NOT suitable for assaying non-biological sources of substances.
Other Notes	Small volumes of SCD4 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 SCD4 purchase	MBS030524 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the sCD4, 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 SCD4. The ELISA analytical biochemical technique of the MBS030524 kit is based on SCD4 antibody-SCD4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect SCD4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, SCD4. 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(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCD4. It may not necessarily be applicable to this product.

NCBI GI #	148596938
NCBI GeneID	79966
NCBI Accession #	NP_079182.2
UniProt Primary Accession #	Q86SK9
UniProt Secondary Accession #	Q4W5Q5; Q8NDS0; Q9H7D1; B2RPG0

UniProt Related Accession #	Q86SK9
GenBank Nucleotide #	NM_024906.2
NCBI Official Full Name	stearoyl-CoA desaturase 5 isoform b
NCBI Official Synonym Full Names	stearoyl-CoA desaturase 5
NCBI Official Symbol	SCD5
NCBI Official Synonym Symbols	SCD2; SCD4; ACOD4; FADS4; HSCD5
UniProt Protein Name	Stearoyl-CoA desaturase 5
UniProt Synonym Protein Names	Acyl-CoA-desaturase 4; HSCD5; Stearoyl-CoA 9-desaturase
Protein Family	Acyl-CoA desaturase
UniProt Gene Name	SCD5
UniProt Synonym Gene Names	ACOD4; SCD4
UniProt Entry Name	SCD5_HUMAN
NCBI Protein Information	stearoyl-CoA desaturase 5; acyl-CoA-desaturase 4; stearoyl-CoA 9-desaturase; stearoyl-CoA desaturase 4
NCBI Summary for SCD4	Stearoyl-CoA desaturase (SCD; EC 1.14.99.5) is an integral membrane protein of the endoplasmic reticulum that catalyzes the formation of monounsaturated fatty acids from saturated fatty acids. SCD may be a key regulator of energy metabolism with a role in obesity and dislipidemia. Four SCD isoforms, Scd1 through Scd4, have been identified in mouse. In contrast, only 2 SCD isoforms, SCD1 (MIM 604031) and SCD5, have been identified in human. SCD1 shares about 85% amino acid identity with all 4 mouse SCD isoforms, as well as with rat Scd1 and Scd2. In contrast, SCD5 shares limited homology with the rodent SCDs and appears to be unique to primates (Wang et al., 2005 [PubMed 15907797]).[supplied by OMIM, Mar 2008]
UniProt Comments for SCD4	SCD5: Fatty acid delta-9-desaturase that introduces a double bond in fatty acyl-coenzyme A at the delta-9 position. Belongs to the fatty acid desaturase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Oxidoreductase; Membrane protein, multi-pass; Membrane protein, integral; EC 1.14.19.1; Lipid Metabolism - unsaturated fatty acid biosynthesis Chromosomal Location of Human Ortholog: 4q21.22 Cellular Component: endoplasmic reticulum membrane; integral to membrane Molecular Function: iron ion binding; stearoyl-CoA 9-desaturase activity Biological Process: fatty acid biosynthetic process
Research Articles on SCD4	**1.** The protective effect of TO901317 was lost after gene silencing of Scd-1/-2, thereby confirming that the protective effect of TO901317 is mediated by Scd-1/-2.
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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.

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