

## Recombinant Human SCD 293 Cell Lysate

Cat. No. SCD-2044HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for stearyl-CoA desaturase (delta-9-desaturase) (SCD) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

<b>Gene Name</b>	SCD stearoyl-CoA desaturase (delta-9-desaturase) [ Homo sapiens ]
<b>Official Symbol</b>	SCD
<b>Synonyms</b>	SCD; stearoyl-CoA desaturase (delta-9-desaturase); SCDOS, stearoyl CoA desaturase opposite strand; acyl-CoA desaturase; acyl CoA desaturase; delta 9 desaturase; FADS5; fatty acid desaturase; delta-9 desaturase; delta-9-desaturase; delta(9)-desaturase; predicted protein of HQ0998; stearoyl-CoA desaturase opposite strand; SCD1; SCDOS; MSTP008;
<b>Gene ID</b>	6319
<b>mRNA Refseq</b>	NM_005063
<b>Protein Refseq</b>	NP_005054
<b>MIM</b>	604031
<b>UniProt ID</b>	O00767
<b>Chromosome Location</b>	10q23-q24
<b>Pathway</b>	Adipogenesis, organism-specific biosystem; Biosynthesis of unsaturated fatty acids, organism-specific biosystem; Biosynthesis of unsaturated fatty acids, conserved biosystem; Fatty Acid Biosynthesis, organism-specific biosystem; PPAR signaling pathway, organism-specific biosystem; PPAR signaling pathway, conserved

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biosystem; oleate biosynthesis II (animals), organism-specific biosystem;

**Function**

iron ion binding; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with oxidation of a pair of donors resulting in the reduction of molecular oxygen to two molecules of water; stearoyl-CoA 9-desaturase activity;

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