

Recombinant Human SCD protein, GST-tagged

Cat. No. SCD-28H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SCD(1 a.a. - 100 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-100 a.a.
Description	This gene encodes an enzyme involved in fatty acid biosynthesis, primarily the synthesis of oleic acid. The protein belongs to the fatty acid desaturase family and is an integral membrane protein located in the endoplasmic reticulum. Transcripts of approximately 3.9 and 5.2 kb, differing only by alternative polyadenylation signals, have been detected. A gene encoding a similar enzyme is located on chromosome 4 and a pseudogene of this gene is located on chromosome 17.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	36.63 kDa
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.

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Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name SCD stearoyl-CoA desaturase (delta-9-desaturase) [Homo sapiens]

Official Symbol SCD

Synonyms 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;

Gene ID 6319

mRNA Refseq NM_005063

Protein Refseq NP_005054

MIM 604031

UniProt ID O00767

Chromosome Location 10q23-q24

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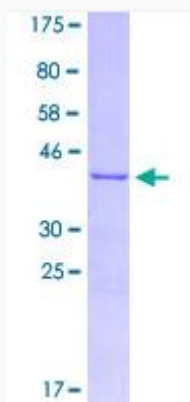
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biosystem; oleate biosynthesis II (animals), organism-specific biosystem;

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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