

Recombinant Human SCD, His-tagged

Cat. No. SCD-3126H Lot. No. (See product label)

SPECIFICATION

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|-------------------------|--|
| Product Overview | Acyl-CoA desaturase (SCD) |
| Species | Human |
| Source | E.Coli/Yeast |
| ProteinLength | 359 |
| Description | This gene encodes an enzyme involved in fatty acid biosynthesis, primarily the synthesis of oleic acid. 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 | This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications. |
| Purity | >90% |
| Notes | Small volumes of SCD recombinant protein 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. |
| Storage | Store at -20 degree C. For extended storage, store at -20 or -80 degree C. |

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|----------------------------|---|
| Storage Buffer | PBS pH 7.4, 50% glycerol |
| Warning | This product is for research use only. Not for use in diagnostic or therapeutic procedures. |
| 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, |

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organism-specific biosystem; Biosynthesis of unsaturated fatty acids, conserved biosystem; Fatty Acid Biosynthesis, organism-specific biosystem; PPAR signaling pathway, or

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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