

Product Information

MemDX™ Membrane Protein Human SCD (Stearoyl-CoA desaturase) Expressed *in vitro*

E.coli expression system, Full Length

Cat. No.: **MPX0941K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human SCD membrane protein expressed *in vitro* *E.coli* expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

SCD

Protein Length

Full Length

Protein Class

Oxidoreductase

Molecular Weight

44.3 kDa

TMD

4

Sequence

MPAHLQDDISSYTTTTTITAPPSRVLQNGGDKLETMPPLYLEDDIRPDIKDDIYDPTYKDKEGSPKVEYVWRNIILMSLLHLGALYG

Product Description

Expression Systems

in vitro *E.coli* expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Purity

>85% as determined by SDS-PAGE.

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

SCD

Full Name

Stearoyl-CoA desaturase

Introduction

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.

Alternative Names

SCD; SCD1; FADS5; SCDOS; hSCD1; MSTP008; acyl-CoA desaturase; delta(9)-desaturase; fatty acid desaturase; predicted protein of HQ0998; stearoyl-CoA desaturase (delta-9-desaturase); stearoyl-CoA desaturase opposite strand; Stearoyl-CoA desaturase

Gene ID

[6319](#)

UniProt ID

[O00767](#)