

## Product Information

### MemDX™ Membrane Protein Human SCD5 (Stearoyl-CoA desaturase 5) Full Length

Cat. No.: **MPC4286K**

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

This product is a made-to-order Human SCD5 membrane protein expressed in HEK293. 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

SCD5

##### Protein Length

Full length

##### Protein Class

Oxidoreductase

##### TMD

4

##### Sequence

MPGPATDAGKIPFCDAKEEIRAGLESSEGGGGPERPGARGQRQNIVWRNV  
VLMSLLHLGAVYSLVLIPKAKPLTLLWAYFCFLAALGVTAGAHLWVSHR  
SYRAKLPLRIFLAVANSMAFQNDIFEWSRDHRAHHKYSETDADPHNARRG  
FFFSHIGWLFVRKHRDVIEKGRKLDVTDLLADPVVRIQRKYYKISVVLMC  
FVVPTLVPWYIWGESLWNSYFLASILRYTISLNIWLNSAAHMYGNRPY  
DKHISPRQNPVLVALGAIGEGFHNYHHTFPFDYSASEFGLNFPNPTTWIDF  
MCWLGLATDRKRAKPMIEARKARTGDSSA

#### Product Description

##### Expression Systems

HEK293

##### Tag

Based on specific requirements

##### Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

##### Form

Liquid

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

### Target

#### Target Protein

SCD5

#### Full Name

Stearoyl-CoA desaturase 5

#### Introduction

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 dyslipidemia. 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.

#### Alternative Names

SCD5; SCD2; SCD4; ACOD4; FADS4; HSCD5; DFNA79; acyl-CoA-desaturase 4; stearoyl-CoA 9-desaturase; stearoyl-CoA desaturase 2; stearoyl-CoA desaturase 4; Stearoyl-CoA desaturase 5

#### Gene ID

[79966](#)

#### UniProt ID

[Q86SK9](#)