



Recombinant Human Stearoyl-CoA desaturase (SCD)

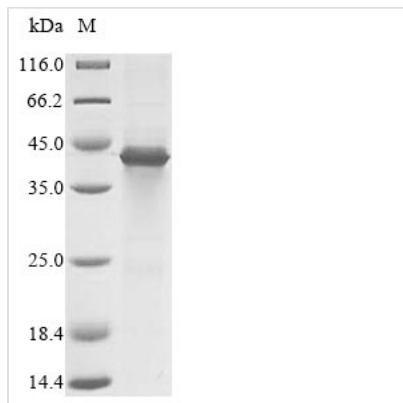
Product Code	CSB-CF020802HU
Relevance	Stearyl-CoA desaturase that utilizes O ₂ and electrons from reduced cytochrome b ₅ to introduce the first double bond into saturated fatty acyl-CoA substrates. Catalyzes the insertion of a cis double bond at the delta-9 position into fatty acyl-CoA substrates including palmitoyl-CoA and stearoyl-CoA. Gives rise to a mixture of 16:1 and 18:1 unsaturated fatty acids. Plays an important role in lipid biosynthesis. Plays an important role in regulating the expression of genes that are involved in lipogenesis and in regulating mitochondrial fatty acid oxidation. Plays an important role in body energy homeostasis. Contributes to the biosynthesis of membrane phospholipids, cholesterol esters and triglycerides
Abbreviation	Recombinant Human SCD protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O00767
Storage Buffer	Lyophilized from Tris/PBS-based buffer, 6% Trehalose
Product Type	Transmembrane Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MPAHLQDDISSSYTTTTTITAPPSRVLQNGGDKLETMPPLYLEDDIRPDIKDDIY DPTYKDEKGPSPKVEYVWRNIILMSLLHLGALYGITLIPTCKFYTWLWGVFYYF VSALGITAGAHRLWSHRYSYKARLPLRLFLIIANTMAFQNDVYEWARHDHRAHHK FSETHADPHNSRRGFFFSHVGWLLVRKHPAVKEKGSTLDLSDLEAEKLVFMFQ RRYYKPGLLMMCFILPTLVPWYFWGETFQNSVFVATFLRYAVVLNATWLVNSA AHLFGYRPYDKNISPRENILVSLGAVGEGFHNYHHSFPYDYSASEYRWHINFT TFFIDCMAALGLAYDRKKVSKAAILARIKRTGDGNYKSG
Research Area	Cancer
Source	in vitro E.coli expression system
Target Names	SCD
Protein Names	Delta(9)-desaturase Short name:Delta-9 desaturase Fatty acid desaturase Stearoyl-CoA desaturase1 Short name:hSCD1
Expression Region	1-359aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged



Mol. Weight 44.3 kDa

Protein Length Full Length

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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