

SCD1 Protein, Mouse, Recombinant (His & Myc)

General Information

Synonyms:	Scd1;Fatty acid desaturase 1;Delta(9)-desaturase 1 (Delta-9 desaturase 1);Acyl-CoA desaturase 1;Stearoyl-CoA desaturase 1
Protein Construction:	260-355 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	P13516
Molecular Weight:	18.4 kDa (predicted)
AA Sequence:	VNSAAHLYGYRPHYDKNIQSRENILVSLGAVGEGFHNYHHTFFPFDYSASEYRWHINFTTFFIDCMAALGLAYDR KKVSKATVLARIKRTGDGSHKSS

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Stearoyl-CoA desaturase that utilizes O₂ and electrons from reduced cytochrome b₅ 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

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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. Required for normal development of sebaceous glands. Required for the biosynthesis of normal levels of Delta-9 unsaturated fatty acids and 1-alkyl-2,3-diacylglycerol in the Harderian gland. Required for normal production of meibum, an oily material that prevents drying of the cornea.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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