

## Acyl-CoA desaturase

Catalog No: #AP79505

Package Size: #AP79505-1 50ug #AP79505-2 100ug #AP79505-3 1mg

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## Description

Product Name	Acyl-CoA desaturase
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% by SDS-PAGE
Species Reactivity	Pig
Immunogen Description	Recombinant protein
Other Names	Delta(9)-desaturase,Fatty acid desaturase,Stearoyl-CoA desaturase,Delta-9 desaturase
Accession No.	O02858Gene name:SCD
Uniprot	O02858
Tag Info	His
Formulation	50mM NaH <sub>2</sub> PO <sub>4</sub> , 500mM NaCl Buffer with 500mM Imidazole,10%glycerol(PH8.0)
Storage	Store at -20C. (Avoid repeated freezing and thawing.)Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Stearyl-CoA desaturase that utilizes O<sub>2</sub> 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 (By similarity). 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 (By similarity). Plays an important role in body energy homeostasis (By similarity). Contributes to the biosynthesis of membrane phospholipids, cholesterol esters and triglycerides.

## References

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Note: This product is for in vitro research use only