

Recombinant Human SOAT1

Cat. No. SOAT1-31430TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human SOAT 1 with N terminal proprietary tag, predicted mwt: 33.66 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	73 amino acids
Description	Acyl-coenzyme A:cholesterol acyltransferase (ACACT; EC 2.3.1.26) is an intracellular protein located in the endoplasmic reticulum that forms cholesterol esters from cholesterol. Accumulation of cholesterol esters as cytoplasmic lipid droplets within macrophages and smooth muscle cells is a characteristic feature of the early stages of atherosclerotic plaques (Cadigan et al.
Molecular Weight	33.660kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids PPASRFIIIFEQIRFVMKAHSFVRENVPRVLNSAKEKSSTVPIPTVNQYLYFLFAPTLIY RDSYPRNPTVRWG

Sequence Similarities Belongs to the membrane-bound acyltransferase family. Sterol o-acyltransferase subfamily.

GENE INFORMATION

Gene Name [SOAT1 sterol O-acyltransferase 1 \[Homo sapiens \]](#)

Official Symbol [SOAT1](#)

Synonyms SOAT1; sterol O-acyltransferase 1; SOAT, STAT, sterol O acyltransferase (acyl Coenzyme A: cholesterol acyltransferase) 1; ACAT; acyl Coenzyme A: cholesterol acyltransferase;

Gene ID [6646](#)

mRNA Refseq [NM_003101](#)

Protein Refseq [NP_003092](#)

MIM [102642](#)

Uniprot ID [P35610](#)

Chromosome Location 1q25

Pathway Statin Pathway, organism-specific biosystem; Steroid biosynthesis, organism-specific biosystem; Steroid biosynthesis, conserved biosystem;

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Function

cholesterol O-acyltransferase activity; cholesterol O-acyltransferase activity;
cholesterol binding; fatty-acyl-CoA binding; sterol O-acyltransferase activity;

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