

Recombinant Human Scavenger Receptor Class B, Member 1, Fc-His

Cat. No. SCARB1-852H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

A DNA sequence encoding the mature form of human SCARB1 extracellular domain (Pro 33 - Tyr 443) was fused with a polyhistidine tag at the C-terminus.

Species

Human

Source

Human

Protein Length

33-443 a.a.

Description

SCARB1 is a member of the scavenger receptor family. SCARB1 is expressed primarily in liver and non-placental steroidogenic tissues. It binds high density lipoproteins (LDL) and mediates selective cholesterol uptake by a mechanism distinct from the LDL pathway. High density lipoproteins (HDLs) play a critical role in cholesterol metabolism and their plasma concentrations are inversely correlated with risk for atherosclerosis. SCARB1 is a key component in the reverse cholesterol transport pathway and plays an important role in lipid metabolism.

Form

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hard copy of COA.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

1.0 EU per µg protein as determined by the LAL method

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| Stability | Samples are stable for up to twelve months from date of receipt at -70°C. |
| Predicted N terminal | Pro 33 |
| Molecular Mass | The recombinant human SCARB1 consists of 422 amino acids and has a predicted molecular mass of 48 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhSCARB1 is approximately 75-85 kDa due to glycosylation. |
| Reconstitution | A hardcopy of COA with reconstitution instruction is sent along with the products. |
| Storage | Store it under sterile conditions at -70°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. |
| GENE INFORMATION | |
| Gene Name | SCARB1 scavenger receptor class B, member 1 [Homo sapiens] |
| Official Symbol | SCARB1 |
| Synonyms | SCARB1; scavenger receptor class B, member 1; CLA1; SRB1; CLA-1; SR-BI; CD36L1; HDLQTL6; CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 1; CD36 and LIMPII analogous 1; MGC138242; OTTHUMP00000239001; OTTHUMP00000239002; OTTHUMP00000239003; OTTHUMP00000239004; OTTHUMP00000239005; OTTHUMP00000239006; scavenger receptor class B member 1; scavenger receptor class B type III; CD36 antigen; CD36 antigen-like 1; collagen type I receptor, thrombospondin receptor-like 1 |
| Gene ID | 949 |
| mRNA Refseq | NM_001082959 |

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|----------------------------|--|
| Protein Refseq | NP_001076428 |
| MIM | 601040 |
| UniProt ID | Q8WTV0 |
| Chromosome Location | 12q24.31 |
| Pathway | Bile secretion; Fatdigestion and absorption; Folate Metabolism; HDL-mediated lipid transport;Hepatitis C; Lipid digestion, mobilization, and transport; Lipoproteinmetabolism; metabolism; Phagosome; Selenium Pathway; Statin Pathway; VitaminA and carotenoid metabolism; Vitamin digestion and absorption |
| Function | 1-phosphatidylinositolbinding; apolipoprotein A-I binding; apolipoprotein binding; high-densitylipoprotein particle binding; high-density lipoprotein particle receptoractivity; lipopolysaccharide binding; lipopolysaccharide receptor activity;low-density lipoprotein particle binding; phosphatidylserinebinding; protein homodimerization activity; receptor activity;transporter activity |

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