

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 LIMP II 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; Fat digestion and absorption; Folate Metabolism; HDL-mediated lipid transport; Hepatitis C; Lipid digestion, mobilization, and transport; Lipoprotein metabolism; metabolism; Phagosome; Selenium Pathway; Statin Pathway; Vitamin A and carotenoid metabolism; Vitamin digestion and absorption
Function	1-phosphatidylinositol binding; apolipoprotein A-I binding; apolipoprotein binding; high-density lipoprotein particle binding; high-density lipoprotein particle receptor activity; lipopolysaccharide binding; lipopolysaccharide receptor activity; low-density lipoprotein particle binding; phosphatidylserine binding; protein homodimerization activity; receptor activity; transporter activity

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