

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

Cat. No. Scarb1-847M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Mouse Scarb1 encoding the human SCARB1 (NP_005496.4) extracellular domain (Pro 33- Tyr 443) was fused with the C-terminal his-tagged Fc region of human IgG1 at the C-terminus. It was produced in HEK293.

Species

Mouse

Source

HEK293

Protein Length

33-443 a.a.

Description

Scavenger receptor class B, member 1, also known as SCARB1, SRB1 and CD36L1, 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. Accordingly, SCARB1 may serve as a useful marker that predicts variation in baseline lipid levels, postprandial lipid response, and response to fenofibrate intervention. The human CD36 and LIMPII analogous-1 (CLA-1) receptor shows high sequence homology with SCARB1, but their functional relationship has not been determined.

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Molecular Mass	The recombinant human SCARB1/Fc is a disulfide-linked homodimer. The reduced monomer consists of 659 amino acids and has a predicted molecular mass of 78 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhSCARB1/Fc monomer is approximately 110-115 kDa due to glycosylation.
Predicted N Terminal	Pro 33.
Endotoxin	< 1.0 EU per 1µg cytokine as determined by the LAL method.
Formulation	Supplied as a 0.2µm filtered solution of PBS, pH7.4.
Reconstitution	Follow the instructions on the vial. Centrifuge the vial at 4°C before opening to recover the entire contents.
Purity	> 98%, as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt -70°C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted and be used as soon as possible. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Scarb1 scavenger receptor class B, member 1 [Mus musculus]
Synonyms	Scarb1; scavenger receptor class B, member 1; CD36; Cla1; SRBI; Srb1; Cla-1; SR-B1; SR-BI; Cd36l1; Hlb398; mSR-BI; AI120173; D5Ertd460e; OTTMUSP00000026063; scavenger receptor class B1; scavenger receptor class B type I
Gene ID	20778

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mRNA Refseq	NM_016741
Protein Refseq	NP_058021
UniProt ID	Q61009
Chromosome Location	68.0 cM
Function	high-density lipoprotein binding; receptor activity

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