

Mouse SCARB1 / CD36L1 / CLA-1 Protein (His & Fc Tag)

Catalog Number: 50317-M03H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

AI120173; CD36; Cd36l1; Cla-1; Cla1; D5Ert460e; Hdlq1; Hlb398; mSR-BI; SR-B1; SR-BI; Srb1; SRBI

Protein Construction:

A DNA sequence encoding the mature form of mouse SRB1 (NP_058021.1) extracellular domain (Pro 33-Val 440) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Pro 33

Molecular Mass:

The secreted recombinant mouse SRB1/Fc is a disulfide-linked homodimer. The reduced monomer comprises 656 amino acids with a predicted molecular mass of 74 kDa. As a result of glycosylation, it migrates as an approximately 115-120 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

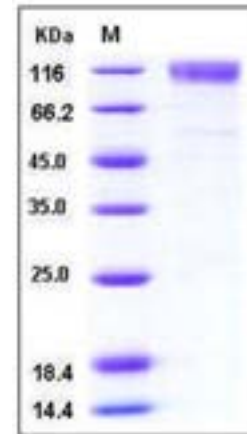
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Scavenger receptor class B, member 1 (SCARB1), also known as CD36L1, is a member of the scavenger receptor family. SCARB1 is expressed primarily in liver and non placental steroidogenic tissues, and predominantly localized to cholesterol and sphingomyelin-enriched domains within the plasma membrane. SCARB1 is proposed as a receptor for different ligands such as phospholipids, cholesterol ester, lipoproteins, phosphatidylserine and apoptotic cells, and is involved in a wide variety of physiological processes. As a key component in the reverse cholesterol transport pathway, SCARB1 binds high density lipoproteins (HDLs) 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 may thus serve as a useful marker that predicts variation in baseline lipid levels and postprandial lipid response. The mouse SCARB1 has been shown to exert actions in determining the levels of plasma lipoprotein cholesterol and the accumulation of cholesterol stores in the adrenal gland.

References

1. Murao, K. et al., 1997, J. Biol. Chem. 272(28): 17551-17557.
2. Ikemoto, M. et al., 2000, Proc. Natl. Acad. Sci. U.S.A. 97 (12): 6538-6543.
3. Husemann, J. et al., 2001, Am. J. Pathol. 158 (3): 825-832.

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