

SR-BI/SCARB1 Protein, Human (HEK293, His)

Cat. No.:	HY-P76657
Synonyms:	Scavenger receptor class B member 1; SRB1; CLA-1; CD36; CD36L1
Species:	Human
Source:	HEK293
Accession:	Q8WTV0-1/NP_001076428.1 (P33-Y443)
Gene ID:	949
Molecular Weight:	70-90 kDa

PROPERTIES

Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SR-BI/SCARB1 Protein, functioning as a versatile receptor, binds to various ligands, including phospholipids, cholesterol ester, lipoproteins, phosphatidylserine, and apoptotic cells. As a receptor for HDL, it plays a crucial role in the selective uptake of cholesteryl ether and HDL-dependent cholesterol efflux. Additionally, SR-BI facilitates the exchange of free and esterified cholesterol between the cell surface and apoB-containing lipoproteins, albeit less efficiently than with HDL. Its involvement in phagocytosis of apoptotic cells, mediated by its phosphatidylserine binding activity, adds another layer to its functional repertoire. In the context of microbial infection, SR-BI acts as a receptor for the hepatitis C virus in hepatocytes, facilitating its cellular entry independently of the viral isolate genotype. The diverse ligand interactions and roles in cholesterol homeostasis, apoptotic cell clearance, and viral infection highlight SR-BI/SCARB1 as a multifunctional player in cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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