Recombinant Human MSR1 Protein, His-tagged

Cat. No. MSR1-2026H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SR-AI/MSR1 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Lys77-Leu451) of human SR-AI/MSR1 (Accession #NP_619729.1) fused with a 6×His tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Lys77-Leu451
Description	This gene encodes the class A macrophage scavenger receptors, which include three different types (1, 2, 3) generated by alternative splicing of this gene. These receptors or isoforms are macrophage-specific trimeric integral membrane glycoproteins and have been implicated in many macrophage-associated physiological and pathological processes including atherosclerosis, Alzheimer's disease, and host defense. The isoforms type 1 and type 2 are functional receptors and are able to mediate the endocytosis of modified low density lipoproteins (LDLs). The isoform type 3 does not internalize modified LDL (acetyl-LDL) despite having the domain shown to mediate this function in the types 1 and 2 isoforms. It has an altered intracellular processing and is trapped within the endoplasmic reticulum, making it unable to perform endocytosis. The isoform type 3 can inhibit the function of isoforms type 1 and type 2 when co-expressed, indicating a dominant negative effect and suggesting a mechanism for regulation of scavenger receptor activity in macrophages.

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Form	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5 % mannitol.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Purity	> 90% as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70ºC.
Storage	Store it under sterile conditions at -20ºC~-70ºC. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	MSR1 macrophage scavenger receptor 1 [Homo sapiens]
Official Symbol	MSR1
Synonyms	MSR1; macrophage scavenger receptor 1; macrophage scavenger receptor types I and II; CD204; SCARA1; scavenger receptor class A member 1; scavenger receptor class A, member 1; macrophage scavenger receptor type III; macrophage acetylated LDL receptor I and II; SRA; SR-A; phSR1; phSR2;
Gene ID	4481
mRNA Refseq	NM_138716
Protein Refseq	NP_619730

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MIM	153622
UniProt ID	P21757

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