

Recombinant Human MSR1 Protein, GST-tagged

Cat. No. MSR1-5664H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MSR1 partial ORF (NP_619729, 121 a.a. - 220 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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, Alzheimers 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. [provided by RefSeq
Molecular Mass	36.74 kDa

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AA Sequence	MEKRIQHILDMEANLMDTEHFQNFSTTDQRFNDILLQLSTLFSSVQGHGNAIDEISK SLISLNTTLLDLQLNIENLNGKIQENTFKQQEEISKCLKERVY
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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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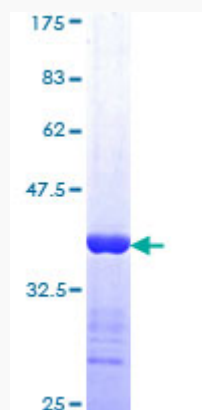
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MIM 153622

UniProt ID P21757

Quality Control
Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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