

## Recombinant Human MSR1 Protein, His-tagged

Cat. No. MSR1-385H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human MSR1 protein with His tag was expressed in HEK293.

**Species** Human

**Source** HEK293

**ProteinLength** 451

#### 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.

**Form** Lyophilized

**Molecular Mass** 42.1 kDa

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**AA Sequence**

MEQWDHFHNQQEDTDCSESVKFDARSMTALLPPNPKNSPSLQEKLKSFKAALIAL  
 YLLVFAVLIPLIGIVAAQLLKWETKNCSVSSTNANDITQSLTGKGNDSSEEMRFQEVF  
 MEHMSNMEKRIQHILDMEANLMDTEHFQNFSMTTDQRFNDILLQLSTLFSSVQGHG  
 NAIDEISKSLISLNTTLLDLQLNIENLNGKIQENTFKQQEEISKLEERVYNVSAEIMAMK  
 EEQVHLEQEIKGEVKVLNNITNDLRLKDWEHSQTLRNITLIQGPPGPPGEKGRGPT  
 GESGPRGFPGPIGPPGLKGDRAIGFPGSRGLPGYAGRPGNSGPKGQKGEKGS  
 NTLTPFTKVRLVGGSGPHEGRVEILHSGQWGTICDDRWEVRVGVVCRSLGYPGV  
 QAVHKAHFGQGTGPIWLNVEVFCFGRESSIEECKIRQWGTRACSHSEDAGVTCTL

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution** Reconstitute in sterile distilled H<sub>2</sub>O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

**Gene Name** [MSR1 macrophage scavenger receptor 1 \[ Homo sapiens \(human\) \]](#)

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<b>Official Symbol</b>	<a href="#">MSR1</a>
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">4481</a>
<b>mRNA Refseq</b>	<a href="#">NM_138716</a>
<b>Protein Refseq</b>	<a href="#">NP_619730</a>
<b>MIM</b>	<a href="#">153622</a>
<b>UniProt ID</b>	<a href="#">P21757</a>

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