

## Active Recombinant Human MSR1 Protein, Fc-tagged

Cat. No. MSR1-01H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The recombinant human MSR1/CD204-Fc fusion is expressed as a 603 amino acid protein consisting of Lys77 - Leu451 region of MSR1/CD204 and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions was expressed in Human cells.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	77-451
<b>Description</b>	<p>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.</p>

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<b>Bio-activity</b>	Binds to advanced glycation endproducts of bovine serum albumin (AGEBSA) by ELISA
<b>Molecular Mass</b>	66.9 kDa
<b>AA Sequence</b>	<p>KWETKNCSVSSTNANDITQSLTGKGNDSSEEEMRFQEVFMEHMSNMEKRIQHILDME  ANLMDTEHFQNFSMTTDQRFNDILLQLSTLFSSVQGHGNAIDEISKSLISLNTLLDLQ  LNIENLNGKIQENTFKQQEEISKLEERVYNVSAEIMAMKEEQVHLEQEIKGEVKVLNNI  TNDLRLKDWESQTLRNITLIQGGPPGPPGEGKDRGPTGESGPRGFPGPIGPPGLKG  DRGAIGFPGSRGLPGYAGRPGNSGPKGQKGEKSGNTLTPFTKVRLVGGSGPHEG  RVEILHSGQWGTICDDRWEVRVGQVVCRLSLGYPGVQAVHKAHFGQGTGPIWLNE  VFCFGRESSIEECKIRQWGTRACSHSEDAGVTCTLSTGHTCPCPAPELLGGPSV  FLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY  NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPP  SREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSK  LTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK</p>
<b>Endotoxin</b>	<0.1 EU/μg of purified recombinant protein determined by the LAL method
<b>Purity</b>	>95% judged by SDS-PAGE under reducing condition.
<b>Storage Buffer</b>	Supplied at 0.25 mg/ml in sterile PBS pH7.4 (carrier and preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule) using the standard procedure.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MSR1 macrophage scavenger receptor 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	MSR1

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**Synonyms** MSR1; macrophage scavenger receptor 1; SRA; SR-A; CD204; SR-AI; phSR1; phSR2; SCARA1; SR-AII; SR-AIII; macrophage scavenger receptor types I and II; macrophage acetylated LDL receptor I and II; macrophage scavenger receptor type III; scavenger receptor class A member 1

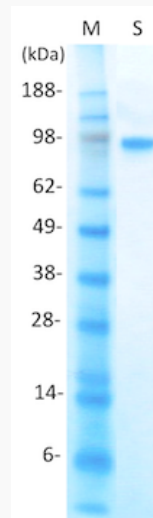
**Gene ID** [4481](#)


**mRNA Refseq** [NM\\_002445](#)

**Protein Refseq** [NP\\_002436](#)

**MIM** [153622](#)

**UniProt ID** [P21757](#)



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