

Active Recombinant Human MSR1 Protein, Fc-tagged

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

SPECIFICATION

Product Overview	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.
-------------------------	--

Species	Human
----------------	-------

Source	Human Cells
---------------	-------------

ProteinLength	77-451
----------------------	--------

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.
--------------------	---

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	Binds to advanced glycation endproducts of bovine serum albumin (AGEBSA) by ELISA
Molecular Mass	66.9 kDa
AA Sequence	KWETKNCSVSSTNANDITQSLTGKGNDSSEEMRFQEVFMEHMSNMEKRIQHILDME ANLMDTEHFQNFMTTDQRFNDILLQLSTLFSSVQGHGNAIDEISKSLISLNTLLDLQ LNIENTLNGKIQENTFKQQEEISKLEERVYNVSAEIMAMKEEQVHLEQEIKGEVKVLNNI TNDLRLKDWEHSQTLRNITLIQGPPGPPGEGKDRGPTGESGPRGFPGPIGPPGLKG DRGAIGFPGSRGLPGYAGRPGNSGPKGQKGEKSGNTLTPFTKVRLVGGSGPHEG RVEILHSGQWGTICDDRWEVRVGQVVCRLGYPGVQAVHKAHFGQGTGPIWLNE VFCFGRESSIEECKIRQWGTRACSHSEDAGVTCTLSTGTHTCPPCPAPELLGGPSV FLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPP SREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSK LTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK
Endotoxin	<0.1 EU/μg of purified recombinant protein determined by the LAL method
Purity	>95% judged by SDS-PAGE under reducing condition.
Storage Buffer	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.
GENE INFORMATION	
Gene Name	MSR1 macrophage scavenger receptor 1 [Homo sapiens (human)]
Official Symbol	MSR1

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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
	