

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

 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

AA Sequence	MEQWDHFNQQEDTDSCSESVKFDARSMTALLPPNPKNSPSLQEKLKSFKAAALIAL YLLVFAVLIPLIGIVAAQLLKWETKNCSVSSTNANDITQSLTGKGNDSSEEMRFQEVF MEHMSNMEKRIQHILDMEANLMDTEHFQNFSTTDQRFNDILLQLSTLFSSVQGHG NAIDEISKSLISLNTTLLDLQLNIENLNGKIQENTFKQQEEISKLEERVYNVSAEIMAMK EEQVHLEQEIKGEVKVLNNITNDLRLKDWEHSQTLRNITLIQGPPGPPGEKGDRGPT GESGPRGFPGPIGPPGLKGDRGAIGFPGSRGLPGYAGRPGNSGPKGQKGEKGSG NTLTPFTKVRLVGGSGPHEGRVEILHSGQWGTICDDRWEVRVGQVVCRLGYPGV QAVHKAHFGQGTGPIWLNEVFCFGRESSIEECKIRQWGTRACSHSEDAGVTCTL
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 H2O 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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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
MIM	153622
UniProt ID	P21757

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