

Recombinant Human MSR1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MSR1-2652H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MSR1 MS Standard C13 and N15-labeled recombinant protein (NP_619730) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	42.8 kDa

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AA Sequence	MEQWDHFHNQQEDTDCSESVKFDARSMTALLPPNPKNSPSLQEKLSFKAALIAL YLLVFAVLIPLIGIVAAQLLKWETKNCSVSSTNANDITQSLTGKGNDSSEEMRFQEVF MEHMSNMEKRIQHILDMEANLMDTEHFQNFSTTDQRFNDILLQLSTLFSSVQGHG NAIDEISKSLISLNTTLLDLQLNIENLNGKIQENTFKQEEISKLEERVYNVSAEIMAMK EEQVHLEQEIKGEVKVLNNITNDLRLKDWEHSQTLRNITLIQGPPGPPGEKGDRGPT GESGPRGFPGPIGPPGLKGDRGAIGFPGSRGLPGYAGRPGNSGPKGQKGEKGSG NTLSTGPIWLNEVFCFGRESSIEECKIRQWGTRACSHSEDAGVTCTLTRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	MSR1 macrophage scavenger receptor 1 [Homo sapiens (human)]
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;

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Gene ID	4481
mRNA Refseq	NM_138716
Protein Refseq	NP_619730
MIM	153622
UniProt ID	P21757

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