

Recombinant Human MSR1

Cat. No. MSR1-30164TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant fragment corresponding to amino acids 121-220 of Human Macrophage Scavenger Receptor I with a proprietary tag; Predicted MWt 36.63 kDa including tag.

Species Human

Source Wheat Germ

ProteinLength 100 amino acids

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, Alzheimers 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 Weight 36.630kDa inclusive of tags

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Tissue specificity	Isoform I, isoform II and isoform III are expressed in monocyte-derived macrophages.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.31% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MEKRIQHILDMEANLMDTEHFQNFSMTTDQRFNDILLQLSTLFSSVQGHGNAIDEISK SLISLNTLLDLQLNIENLNGKIQENTFKQQEEISKLEERVY
Sequence Similarities	Contains 1 collagen-like domain. Contains 1 SRCR domain.

GENE INFORMATION

Gene Name	MSR1 macrophage scavenger receptor 1 [Homo sapiens]
Official Symbol	MSR1
Synonyms	MSR1; macrophage scavenger receptor 1; macrophage scavenger receptor types I and II; CD204; SCARA1;
Gene ID	4481
mRNA Refseq	NM_002445
Protein Refseq	NP_002436

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MIM	153622
Uniprot ID	P21757
Chromosome Location	8p22
Pathway	Phagosome, organism-specific biosystem; Phagosome, conserved biosystem;
Function	low-density lipoprotein particle binding; protein binding; receptor activity; scavenger receptor activity;

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