

Recombinant Human MSR1 Protein, MYC/DDK-tagged

Cat. No. MSR1-2090H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human MSR1 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293

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. [provided by RefSeq, Jul 2008].

Form 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	39.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	MSR1 macrophage scavenger receptor 1 [Homo sapiens]
Official Symbol	MSR1
Synonyms	CD204; phSR1; phSR2; SCARA1; SR-A; SRA
Gene ID	4481
mRNA Refseq	NM_138716
Protein Refseq	NP_619730
MIM	153622
UniProt ID	P21757

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