

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 | MEQWDHFHNQQEDTDCSESVKFDARSMTALLPPNPKNSPSLQEKLKSFKAALIAL YLLVFAVLIPLIGIVAAQLLKWETKNCSVSSTNANDITQSLTGKGNDSSEEMRFQEVF MEHMSNMEKRIQHILDMEANLMDTEHFQNFSMTTDQRFNDILLQLSTLFSSVQGHG NAIDEISKSLISLNTTLLDLQLNIENLNGKIQENTFKQQEEISKLEERVYNVSAEIMAMK EEQVHLEQEIKGEVKVLNNITNDLRLKDWEHSQTLRNITLIQGPPGPPGEKGDGRGPT 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

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|------------------------|--|
| 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; |

Gene ID 4481

mRNA Refseq NM_138716

Protein Refseq NP_619730

MIM 153622

UniProt ID P21757

SDS-PAGE



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