

Human MSR1 / SCARA1 / CD204 Protein (His Tag)

Catalog Number: 10427-H07H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CD204; phSR1; phSR2; SCARA1; SR-A; SRA

Protein Construction:

A DNA sequence encoding the extracellular domain (Lys 77-Leu 451) of human scavenger receptor 1 isoform type 1 (NP_619729.1) was fused with the polyhistidine tag at the N-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human MSR1 consisting of 391 amino acids predicts a molecular mass of 43 kDa. Due to glycosylation, apparent molecular mass of rh MSR1 is approximately 55-65 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.5

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

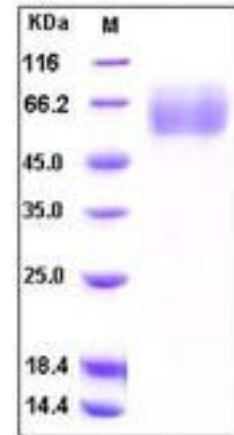
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Macrophage scavenger receptor types I and II, also known as Macrophage acetylated LDL receptor I and II, Scavenger receptor class A member 1, CD204, MSR1 and SCARA1, is a single-pass type II membrane protein which contains onecollagen-like domain and oneSRCR domain. Macrophages are distributed in all peripheral tissues and play a critical role in the first line of the innate immune defenses against bacterial infection by phagocytosis of bacterial pathogens through the macrophage scavenger receptor 1 (MSR1). MSR1 / SCARA1 is one of the membrane glycoproteins implicated in the pathologic deposition of cholesterol in arterial walls during atherogenesis. Two types of receptor subunits exist. These receptors mediate the endocytosis of a diverse group of macromolecules, including modified low density lipoproteins (LDL). MSR1 / SCARA1 is also involved in chronic inflammation which is a risk factor for prostate cancer. MSR1 1 gene was identified as a candidate susceptibility gene for hereditary prostate cancer and as a risk factor for sporadic prostate cancer.

References

- 1.Wang L. et al., 2003, Nat Genet. 35 (2): 128-9.
- 2.Chen Y.C. et al., 2008, Cancer Epidemiol Biomarkers Prev. 17 (4): 1001-3.
- 3.Shirato K. et al., 2009, Pflugers Arch. 459 (1): 93-103.

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