

Rat MSR1 / SCARA1 Protein (Fc Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 80363-R01H

General Information

Gene Name Synonym:

MSR1

Protein Construction:

A DNA sequence encoding the rat MSR1 (NP_001178868.1)(Trp79-Ser454) was expressed, fused with the Fc region of human IgG1 at the N-terminus.

Source: Rat

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

Predicted N terminal: Glu

Molecular Mass:

The recombinant Rat MSR1/Fc comprises 636 amino acids and has a predicted molecular mass of 69.2 kDa. The apparent molecular mass of the protein is approximately 89 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

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

Stability & Storage:

Samples are stable for twelve months from date of receipt at -20°C to -80°C.

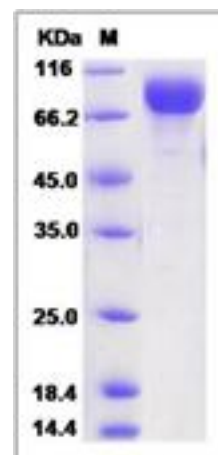
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

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, CD24, 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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