# Recombinant human SR-AI/MSR1 protein

Catalog Number: ATGP3333

## PRODUCT INFORMATION

**Expression system**
Baculovirus

**Domain**
77-451aa

**UniProt No.**
P21757

**NCBI Accession No.**
NP_619729

**Alternative Names**
Macrophage scavenger receptor types I and II isoform type 1, CD204, phSR1, phSR2, SCARA1, SRA, SR-A

## PRODUCT SPECIFICATION

**Molecular Weight**
42.4 kDa (384aa)

**Concentration**
0.5mg/ml (determined by absorbance at 280nm)

**Formulation**
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

**Purity**
> 95% by SDS-PAGE

**Endotoxin level**
< 1 EU per 1ug of protein (determined by LAL method)

**Tag**
His-Tag

**Application**
SDS-PAGE

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**
MSR1, as known as macrophage scavenger receptor types I and II isoform type 1, is single-pass type II membrane protein. Scavenger receptors are a group of membrane receptors that recognize and internalize modified low density lipoproteins (LDLs) and participate in the removal of many foreign substances and waste materials in the living body. Scavenger receptors are categorized into three classes, and class A mainly

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expressed in macrophage includes three isoforms derived by alternative splicing. This protein, has been suggested to play important roles in macrophage growth, cell adhesion, osteoclast differentiation, and as well as intracellular signaling. Recombinant human MSR1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

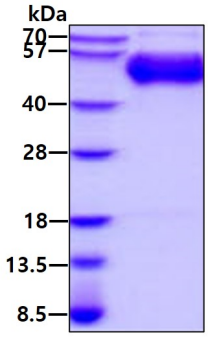
<ADP>KWETKNC SVSSTNANDI TQSLTGKGND SEEEMRFQEV FMEHMSNMEK RIQHILDMEA NLMDTEHFQN FSMTTDQRFN DILLQLSTLF SSVQGHGNAI DEISKSLISL NTTLLDLQLN IENLNGKIQE NTFKQQEEIS KLEERVYNVS AEIMAMKEEQ VHLEQEIKGE VKVLNNITND LRLKDWEHSQ TLRNITLIQG PPGPPGEKGD RGPTGESGPR GFPGPIGPPG LKGDRGAIGF PGSRGLPGYA GRPGNSGPKG QKGEKGSGNT LTPFTKVRLV GGSGPHEGRV EILHSGQWGT ICDDRWEVRV GQVVCRSLGY PGVQAVHKAA HFGQGTGPIW LNEVFCFGRE SSIEECKIRQ WGTRACSHSE DAGVTCTL<HH HHHH>

### General References

Dansako H., et al. (2013) PLoS Pathog. 9:E1003345.
Shigeoka M., et al. (2013) Cancer Sci. 104:1112-1119.

## DATA

### SDS-PAGE




3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain