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

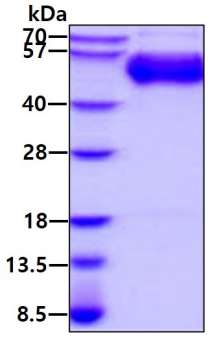
<ADP>KWETKNC SVSSTNANDI TQSLTGKGND SEEEMRFQEV FMEHMSNMEK RIQHILDMEA NLMDTEHFQN FSMTTDQRFN DILLQLSTLF SSVQGHGNAI DEISKSLISL NTTLLDLQLN IENLNGKIQE NTFKQQEEIS KLEERVYNVS AEIMAMKEEQ VHLEQEIKGE VKVLNNITND LRLKDWEHSQ TLRNITLIQG PPGPPGEKGD RGPTGESGPR GFPGPIGPPG LKGDRGAIGF PGSRGLPGYA GRPGNSGPKG QKGEKGSGNT LTPFTKVRLV 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