

Recombinant human ICAM-1/CD54 protein

Catalog Number: ATGP4113

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

28-480aa

UniProt No.

P05362

NCBI Accession No.

NP_000192.1

Alternative Names

Intercellular adhesion molecule 1, ICAM1, Major group rhinovirus receptor, BB2, CD54

Additional Information

ATGP3030 has been replaced with a catalog number ATGP4113.

PRODUCT SPECIFICATION

Molecular Weight

76.5 kDa (692aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Endotoxin level

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

Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of HL-60 human promyelocytic cells. When cells are added to Human ICAM-1/CD54 coated plates, the ED50 range \leq 2 ug/ml.

Tag

hIgG-His-Tag

Application

SDS-PAGE, Bioactivity

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.

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BACKGROUND

Description

ICAM-1/CD54, also known as intercellular adhesion molecule 1, is a member of the immunoglobulin superfamily. Its expression is weak on leukocytes, epithelial and resting endothelial cells, as well as some other cell types, but expression can be stimulated by IFNG, TNF α , IL-1 β and LPS. They are important in inflammation, immune responses and in intracellular signalling events. It is known to bind to leucocyte integrins CD11/CD18 such as LFA-1 and Macrophage-1 antigen, during inflammation and in immune responses. It has been implicated in subarachnoid hemorrhage and expressed by respiratory epithelial cells is also the binding site for rhinovirus, the causative agent of most common colds. Recombinant human ICAM-1/CD54, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

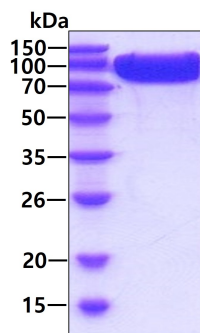
QTSVSPSKVI LPRGGSVLVT CSTSCDQPKL LGIETPLPKK ELLLPGNRKY VYELSNVQED SQPMCYSNCP DGQSTAKTFL TVYWTPERVE LAPLPSWQPV GKNLTLRCQV EGGAPRANLT VVLLRGEKEL KREPAVGEPV EVTTTTLVRR DHHGANFSCR TELDLRPQGL ELFENTSAPY QLQTFVLPAT PPQLVSPRVL EVDTQGTVC SLDGLFPVSE AQVHLALGDQ RLNPTVTYGN DSFSAKASVS VTADEGTQR LTCAVILGNQ SQETLQVTI YSFPAPNVIL TKPEVSEGTE VTKCEAHPR AKVTLNGVPA QPLGPRAQLL LKATPEDNGR SFSCSATLEV AGQLIHKNQT RELRVLYGPR LDERDCPGNW TWPENSQQTP MCQAWGNPLP ELKCLKDGTG PLPIGESVTV TRDLEGTYLC RARSTQGEVT REVTNVNLSP RYE<VEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNAKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNQGPENNY KTTPPVLDSG GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGK<HHHH HH>

General References

Yusuf-Makagiansar H. et al. (2001) Peptides. 22:1955-1962

DATA

SDS-PAGE



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

Biological Activity

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Human ICAM-1/CD54 stimulates cell adhesion of the HL-60 human promyelocytic cells. The ED50 range ≤ 2 ug/ml.

