

## 32-13262: ICAM1 Human, Sf9

**Alternative Name :** Intercellular Adhesion Molecule 1, Major Group Rhinovirus Receptor, ICAM-1, Intercellular Adhesion Molecule 1 (CD54), Human Rhinovirus Receptor, Cell Surface Glycoprotein P3.58, Human Rhinovirus Receptor, CD54 Antigen, P3.58, CD54, BB2, Intercellular adhesion molecule 1.

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

ICAM-1 also called CD54 is a single chain membrane glycoprotein expressed on the surface of a variety of non-haematopoietic and haematopoietic cell types and has roles in signal transduction, cell signaling and lymphocyte adhesion. ICAM1 binds to integrins such as CD11a / CD18, or CD11b / CD18. ICAM1 is also used by Rhinovirus as a receptor. ICAM-1 is an intercellular adhesion molecule constantly present in low concentrations in the membranes of leukocytes and endothelial cells. When stimulated by cytokine the concentrations significantly increase. ICAM-1 can be stimulated by interleukin-1 (IL-1) and tumor necrosis factor alpha (TNFA) and is expressed by the vascular endothelium, macrophages and lymphocytes. ICAM-1 is a ligand for LFA-1 which is a receptor found on leukocytes. Upon activation, leukocytes bind to endothelial cells via ICAM-1/LFA-1 and then transmigrate into tissues. ICAM-1 is implicated in subarachnoid hemorrhage (SAH). Levels of ICAM-1 are shown to be notably elevated in patients with SAH. A Soluble ICAM-1 is detectable in the plasma and is elevated in patients with various inflammatory conditions.

ICAM1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 692 amino acids (28-480a.a.) and having a molecular mass of 76.5kDa. (Molecular size on SDS-PAGE will appear at approximately 70-100kDa). ICAM1 is expressed with a 239 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

### Product Info

<b>Amount :</b>	2 µg / 10 µg
<b>Purification :</b>	Greater than 90.0% as determined by SDS-PAGE.
<b>Content :</b>	ICAM1 protein solution (0.25mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	QTSVSPSKVI LPRGGSVLVT CSTSCDQPKL LGIETPLPKK ELLPGNNRK VYELSNVQED SQPMCYSNCP DGQSTAKTFL TVYWTPEVE LAPLPSWQPV GKNLTLRCQV EGGAPRANLT VVLLRGEKEL KREPAVGEP A EVTTTVLVRR DHHGANFSCR TELDLRPQGL ELFENTSAPY QLQTFVLPAT PPQLVSPRVL EVDTQGT VVC SLDGLFPVSE AQVHLALGDQ RLNPVTYGN DSFSKASVS VTAEDEGTQR LTCAVILGNQ SQETLQTVTI YSFPAPNVIL TKPEVSEGTE VTKCEAHPK AKVTLNGVPA QPLGPRAQLL LKATPEDNGR SFSCSATLEV AGQLIHKNT RELRVLYGPR LDERDCPGNW TWPENSQQTP MCQAWGNPLP ELKCLKDGT F PLPIGESVTV TRDLEGTYLC RARSTQGEVT REVTVNVLS RYEVEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNAKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTPLVLDSG GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYRQKSL SLSPGKHHHH HH.