

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

Amount :	2 µg / 10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	ICAM1 protein solution (0.25mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.
Storage condition :	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.
Amino Acid :	QTSVSPSKVI LPRGGSVLVT CSTSCDQPKL LGIETPLPKK ELLPGNNRK VYELSNVQED SQPMCYSNCP DGQSTAKTFL TVYWTPEVE LAPLPSWQPV GKNLTLRCQV EGGAPRANLT VVLLRGEKEL KREPAVGPEA EVTTTVLVRR DHHGANFSCR TELDLRPQGL ELFENTSAPY QLQTFVLPAT PPQLVSPRVL EVDTQGTVC SLDGLFPVSE AQVHLALGDQ RLNPVTYGN DSFSKASVS VTADEGTQR LTCAVILGNQ SQETLQTVTI YSFPAPNVIL TKPEVSEGTE VTKCEAHPK AKVTLNGVPA QPLGPRAQLL LKATPEDNGR SFSCSATLEV AGQLIHKNQT RELRVLYGPR LDERDCPGNW TWPENSQQTP MCQAWGNPLP ELKCLKDGTG PLPIGESVTV TRDLEGTYLC RARSTQGEVT REVTVNVLSP RYEVEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNAKALPAP IEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG FYPDSIAVEW ESNGQPENNY KTTTPVLDSG GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYRQKSL SLSPGKHHHH HH.