
Product Data Sheet

Product Name: ICAM1 Human, Sf9

Cat. No.: GP23685

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms 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.

Amino Acid Sequence
 QTSVSPSKVILPRGGSVLVT CSTSCDQPKL LGIETPLPKK ELLLPGNR
 VYELSNVQED SQPMCYSNCP DGQSTAKTFLTVYWTPEVE LAPLPSWQPV
 GKNLTLRCQV EGGAPRANLT VVLLRGEKEL KREPAVGEP
 EVTTTVLVR RDH HGANFSCR TELDLRPQGL ELFENTSAPY QLQTFVLPAT
 PPQLVSPRVL EVDTQGTVC SLDGLFPVSEAQVHLALGDQ RLNPTV TYGN
 DSFSAKASVS VTADEGTQR LTCAVILGNQ SQETLQTVTI
 YSFPAPNVILTKPEVSEGTE VTKCEAHPR AKVTLNGVPA QPLGPRAQLL
 LKATPEDNGR SFSCSATLEV AGQLIHKNQ TRELRVLYGPR LDERDCPGNW
 TWPENSQQTP MCQAWGNPLP ELKCLKDGTPLPIGESVTV
 TRDLEGTYLCRARSTQGEVT REVTNVNLS RYEVEPKSCD KTHTCPPCPA
 PELLGGPSVF LFPPKPKDTL MISRTPEVTCVVVDVSHEDP EVKFNWYVDG
 VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC
 KVS NKALPAPIEKTISKAKG QPREPQVYTL PPSRDELTKN QVSLTCLVKG
 FYPSDIAVEW ESNQGPENNY KTPPVLDSDGSFFLYSKLT VDKSRWQQGN
 VFSCSVMHEA LHNHYRQKSL SLSPGKHHHH HH.

Formulation ICAM1 protein solution (0.25mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.

Introduction

ICAM-1 also called CD54 is a single chain membrane glycoprotein expressed on the

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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. Soluble ICAM-1 is detectable in the plasma and is elevated in patients with various inflammatory conditions.

Stability

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA