

# ICAM-1, human recombinant

<b>CATALOG #:</b>	7161-10	10 µg
	7161-50	50 µg
<b>ALTERNATE NAMES:</b>	Intercellular adhesion molecule 1, major group rhinovirus receptor, CD54 antigen	
<b>SOURCE:</b>	CHO Cells	
<b>PURITY:</b>	≥ 98% by SDS-PAGE gel and HPLC analyses	
<b>MOL. WEIGHT:</b>	49.5 kDa	
<b>ENDOTOXIN LEVEL:</b>	< 0.1 ng/µg of protein (<1EU/µg).	
<b>FORM:</b>	Lyophilized	
<b>FORMULATION:</b>	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Phosphate, pH 7.5.	
<b>STORAGE CONDITIONS:</b>	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

**RECONSTITUTION:**

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

**DESCRIPTION:**

ICAMs are members of the Ig superfamily of calcium-independent transmembrane glycoproteins. ICAM-1 is a ligand for lymphocyte function-associated (LFA) and Mac-1 integrins and the major human rhinovirus receptor. The primary function of ICAM-1 is to provide adhesion between endothelial cells and leukocytes after stress or injury. The human ICAM-1 gene codes for a 505 amino acid transmembrane glycoprotein containing a 29 amino acid cytoplasmic domain, a 23 amino acid transmembrane domain, and a 453 amino acid extracellular domain. Recombinant human ICAM-1 is a 49.5 kDa glycoprotein

comprising the extracellular domain (453 amino acid residues) of ICAM-1. Monomeric glycosylated ICAM-1 migrates at an apparent molecular weight of approximately 72.0-80.0 kDa by SDS-PAGE analysis under reducing conditions.

**BIOLOGICAL ACTIVITY:**

ICAM-1 supported the adhesion of more than 50% PMA-stimulated HSB2 cells to plates coated at 25 µg/ml ICAM-1 concentration.

**AMINO ACID SEQUENCE:**

QTSVSPSKVI LPRGGSVLVT CSTSCDQPKL LGIETPLPKK ELLLPGNRRK  
VYELSNVQED SQPMCYSNCP DGQSTAKTFL TVYWTPERVE LAPLPSWQPV  
GKNLTLRCQV EGGAPRANLT VVLLRGEKEL KREPAVGEP A EVTTTVLVR R  
DHHGANFSCR TELDLRPQGL ELFENTSAPY QLQTFVLPAT PPQLVSPRVL  
EVDTQGTVC SLDGLFPVSE AQVHLALGDQ RLNPTVTYGN DSFSAKASVS  
VTADEGTQR LTCAVILGNQ SQETLQVTI YSFPAPNVIL TKPEVSEGTE  
VTVKCEAHPR AKVTLNGVPA QPLGPRAQLL LKATPEDNGR SFSCSATLEV  
AGQLIHKNT RELRVLYGPR LDERDCPGNW TWPENSQQTP MCQAWGNPLP  
ELKCLKDGTFLPIGESVTV TRDLEGTYLC RARSTQGEVT RKVTVNVLSP RYE

**RELATED PRODUCTS:**

- ICAM-1 Antibody (Cat # 3422R-100)
- ICAM-1 Blocking peptide (Cat # 3422RBP-50)
- ICAM-2 Antibody (Cat # 3926-100)
- ICAM-2 Blocking peptide (Cat # 3926BP-50)

**FOR RESEARCH USE ONLY! Not to be used in humans.**