

ICAM-1, human recombinant

CATALOG #:	7161-10	10 µg
	7161-50	50 µg
ALTERNATE NAMES:	Intercellular adhesion molecule 1, major group rhinovirus receptor, CD54 antigen	
SOURCE:	CHO Cells	
PURITY:	≥ 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	49.5 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Phosphate, pH 7.5.	
STORAGE CONDITIONS:	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
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 RKVTVNLVSP 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.