# Recombinant Human Intercellular Adhesion Molecule 1

**Cat. No.** ICAM1-946H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant human ICAM-1 produced in*CHO cell*sis 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. |
| **Species** | Human |
| **Source** | CHO |
| **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. |
| **Purity** | >98 % (SDS-PAGE, HPLC). |
| **Endotoxin Level** | < 0.1 ng per ug of ICAM-1. |
| **Stabilizer** | None. |
| **Formulation** | Lyophilized. |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **Stability** | The lyophilized protein is stable for at least 2 years from date of receipt at -20℃. Reconstituted ICAM-1 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20℃. |

## GENE INFORMATION

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| **Gene Name** | ICAM1 intercellular adhesion molecule 1 [ Homo sapiens ] |
| **Synonyms** | ICAM1; intercellular adhesion molecule 1; BB2; CD54; P3.58; human rhinovirus receptor; Intercellular adhesion molecule 1; ICAM-1; Major group rhinovirus receptor; CD54 antigen; cell surface glycoprotein P3.58; intercellular adhesion molecule 1 (CD54), human rhinovirus receptor |
| **Gene ID** | 3383 |
| **mRNA Refseq** | NM_000201 |
| **Protein Refseq** | NP_000192 |
| **MIM** | 147840 |
| **UniProt ID** | P05362 |
| **Chromosome Location** | 19p13.3-p13.2 |
| **Pathway** | Cell adhesion molecules (CAMs); Leukocyte transendothelial migration; Natural killer cell mediated cytotoxicity; Integrin cell surface interactions; Signaling in Immune system |
| **Function** | integrin binding ; protein binding ; transmembrane receptor activity |

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