

# Recombinant Human Intercellular Adhesion Molecule 1, Fc Chimera

**Cat. No.** ICAM1-1625H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Recombinant Human ICAM-1 was expressed in <i>NSO cells</i> . The extracellular domain of human ICAM-1 (amino acid residues 1 - 480) was fused to the carboxy-terminal Fc region of human IgG1 via a polypeptide linker.                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Length</b>   | 1-480 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Intercellular adhesion molecule-1 (ICAM-1) is one of an important cell adhesion molecules (CAMs) family transmembrane glycoprotein and is critical for the firm arrest and transmigration of leukocytes out of blood vessels and into tissues. ICAM-1 is constitutively present on endothelial cells, but its expression is increased by proinflammatory cytokines. ICAM-1 is a marker of endothelial dysfunction leading to damaging vascular disorders, in umbilical and placental vascular tissue of gestational pregnancies. |
| <b>State Of Matter</b>  | Lyophilized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | >95% by SDS Page and analyzed by silver stain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Endotoxin</b>        | <1.0 EU/g as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Weight</b>      | The predicted molecular weight of Recombinant Human ICAM-1 is Mr 70 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 110-125 kDa.                                                                                                                                                                                                                                       |
| <b>Formulation</b>           | The recombinant protein was 0.2 µm filtered and lyophilized from PBS.                                                                                                                                                                                                                                                                                                                                       |
| <b>Biological Activity</b>   | The biological activity of Human ICAM-1 was determined by the ability of the immobilized protein to support the adhesion of HSB2 cells, a human peripheral blood acute lymphoblastic leukemia cell line. When 5 x 10 <sup>4</sup> cells/well are added to recombinant human ICAM/Fc coated plates (12.5 µg/ml with 100 µl/well), approximately 60 - 70% will adhere after PMA stimulation for 1 hour at RT. |
| <b>Storage And Stability</b> | This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.                                                                                                                             |

## GENE INFORMATION

|                       |                                                                                                                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>      | ICAM1 intercellular adhesion molecule 1 [ Homo sapiens ]                                                                                                                                                                                                                              |
| <b>Synonyms</b>       | 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 |
| <b>Gene ID</b>        | 3383                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>    | NM_000201                                                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b> | NP_000192                                                                                                                                                                                                                                                                             |

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| <b>MIM</b>                 | 147840                                                                                                                                                                          |
| <b>UniProt ID</b>          | P05362                                                                                                                                                                          |
| <b>Chromosome Location</b> | 19p13.3-p13.2                                                                                                                                                                   |
| <b>Pathway</b>             | Cell adhesion molecules (CAMs); Leukocyte transendothelial migration; Natural killer cell mediated cytotoxicity; Integrin cell surface interactions; Signaling in Immune system |
| <b>Function</b>            | integrin binding ; protein binding ; transmembrane receptor activity                                                                                                            |

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