

Recombinant Human Intercellular Adhesion Molecule 1, Fc Chimera

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

SPECIFICATION

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| Product Overview | Recombinant Human ICAM-1 was expressed in NSO cells. 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. |
| Species | Human |
| Source | Mammalian Cells |
| Protein Length | 1-480 a.a. |
| Description | 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. |
| State Of Matter | Lyophilized. |
| Purity | >95% by SDS Page and analyzed by silver stain. |
| Endotoxin | <1.0 EU/g as determined by the LAL method. |

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| Molecular Weight | 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. |
| Formulation | The recombinant protein was 0.2 µm filtered and lyophilized from PBS. |
| Biological Activity | 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 ⁴ 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. |
| Storage And Stability | 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

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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 |

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| 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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