

Recombinant Human Intercellular Adhesion Molecule 1, Fc Chimera

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

SPECIFICATION

Product Overview	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.
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

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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