

Recombinant Human Intercellular Adhesion Molecule 1

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

SPECIFICATION

Product Overview	Recombinant human ICAM-1 produced in <i>CHO</i> cells 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.
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.

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Stability

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

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

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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