

Recombinant Human Intercellular Adhesion Molecule 3, Fc-His

Cat. No. ICAM3-655H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human intercellular adhesion molecule 3 was produced in *HEK293*. The extracellular domain (Met1-His485) of human ICAM3 (NP_002153.2) precursor was expressed with the fused C-terminal his-tagged the Fc region of human IgG1 at the C-terminus.

Species Human

Source HEK293

ProteinLength 1-485 a.a.

Description The protein ICAM3, also known as CD50, is a member of the intercellular adhesion molecule (ICAM) family consisting three members. All ICAM proteins are type I transmembrane glycoproteins, and are ligands for leukocyte function-associated antigen 1 (LFA-1) expressed on the surface of all white blood cells. ICAM-3 comprises of five immunoglobulin-like domains, and binds LFA-1 through its two N-terminal domains. It functions not only as an adhesion molecule, but also as a potent signalling molecule. ICAM3 is constitutively and abundantly expressed by all leucocytes, and thus is the major ligand for LFA-1 in the initiation of primary immune responses. It has been reported that CD50 molecule can play a role in developing functionally mature T lymphocytes and its expression increases during the maturation process of T lymphocytes. In addition, the interactions of ICAM-3 and LFA-1 facilitate HIV-1- induced virological synapse formation between T cells

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Molecular Mass	The recombinant human ICAM3/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 703 amino acids and predicts a molecular mass of 77.2KDa. By SDS-PAGE, the apparent molecular mass of rh ICAM3/Fc is approximately 125-135KDa due to the glycosylation.
Predicted N Terminal	Gln 30.
Endotoxin	<1.0EU per 1µg cytokine as determined by the LAL method.
Formulation	Supplied as a 0.2µm filtered solution of 100mM Glycine, 10mM NaCl, 50mM Tris, pH7.5
Reconstitution	Follow the instructions on the vial. Centrifuge the vial at 4°C before opening to recover the entire contents.
Purity	>97%, as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt -70°C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted and be used as soon as possible. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	ICAM3 intercellular adhesion molecule 3 [Homo sapiens]
Synonyms	ICAM3; intercellular adhesion molecule 3; CD50; CDW50; ICAM-R; CDw50; intercellular adhesion molecule-3; Intercellular adhesion molecule 3; ICAM-3; CD50 antigen
Gene ID	3385

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mRNA Refseq	NM_002162
Protein Refseq	NP_002153
MIM	146631
UniProt ID	P32942
Chromosome Location	19p13.3-p13.2
Pathway	Cell adhesion molecules (CAMs); Integrin cell surface interactions; Signaling in Immune system
Function	integrin binding
PDB rendering based on 1t0p.	