

Recombinant Rhesus ICAM1 Protein (Met1-Glu480), His-tagged

Cat. No. ICAM1-1005R **Lot. No.** (See product label)

SPECIFICATION


Product Overview Recombinant Rhesus ICAM1 Protein (NP_001040600.1) (Met1-Glu480) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus.

Species Rhesus macaque


Source HEK293

ProteinLength Met1-Glu480

Description Intercellular adhesion molecule-1 (ICAM-1, or CD54) is a 9 kDa member of the immunoglobulin (Ig) superfamily 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. The endothelial expression of ICAM-1 is increased in atherosclerotic and transplant-associated atherosclerotic tissue and in animal models of atherosclerosis. Additionally, ICAM-1 has been implicated in the progression of autoimmune diseases. ICAM-1 is a ligand for LFA-1(integrin). When activated, leukocytes bind to endothelial cells via ICAM-1/LFA-1 interaction and then transmigrate into tissues. Presence with heavy glycosylation and other structural characteristics, ICAM-1 possesses binding sites for a number of immune-associated ligands and serves as the binding site for entry of the major group of human Rhinovirus (HRV) into various cell types. ICAM-1 also becomes known for its affinity for Plasmodium falciparum-infected erythrocytes (PFIE), providing more of a role in infectious disease. Previous studies have shown

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that ICAM-1 is involved in inflammatory reactions and that a defect in ICAM-1 gene inhibits allergic contact hypersensitivity.

Predicted N Terminal Gln 28

Form Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Mass The recombinant ICAM1 consists of 464 amino acids and predicts a molecular mass of 50.9 kDa.

Endotoxin < 1.0 EU per µg protein as determined by the LAL method.

Purity > 90 % as determined by SDS-PAGE.

Stability Samples are stable for up to twelve months from date of receipt at -70 centigrade.

Storage Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.


Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

Shipping In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.
Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION


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Gene Name	ICAM1 intercellular adhesion molecule 1 [<i>Macaca mulatta</i> (Rhesus monkey)]
Official Symbol	ICAM1
Gene ID	712280
mRNA Refseq	NM_001047135
Protein Refseq	NP_001040600
UniProt ID	Q5NKV6

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