

Human ICAM-1/CD54 Protein

Cat. No. ICM-HM101

Description

Source	Recombinant Human ICAM-1/CD54 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln28-Glu480.
Accession	AAH15969
Molecular Weight	The protein has a predicted MW of 50.6 kDa. Due to glycosylation, the protein migrates to 68-80 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

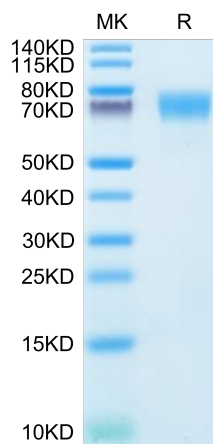
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Intercellular adhesion molecule-1 (ICAM-1; CD54) is a 90 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.

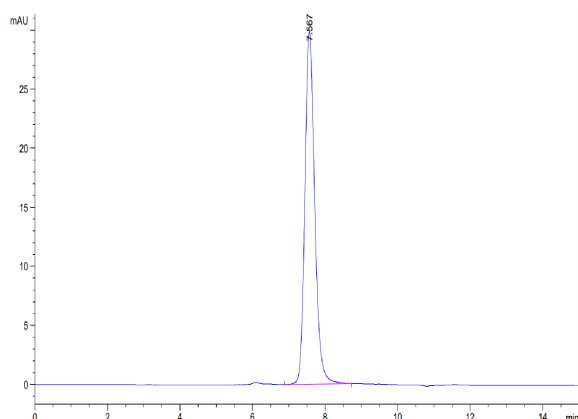
Assay Data

Bis-Tris PAGE



Human ICAM-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



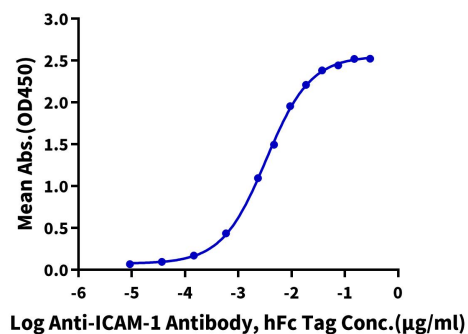
The purity of Human ICAM-1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human ICAM-1, His Tag ELISA

0.1µg Human ICAM-1, His Tag Per Well



Immobilized Human ICAM-1, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Anti-ICAM-1 Antibody, hFc Tag with the EC50 of 3.3ng/ml determined by ELISA.