



Recombinant Protein Technical Manual
Recombinant Human ICAM/CD54 Protein (His Tag)
RPES4096

Product Data:

Product SKU: RPES4096

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: NP_000192.2

Protein Information:

Molecular Mass: 50.5 kDa

AP Molecular Mass: 88 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

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

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Intercellular Adhesion Molecule 1; ICAM; Major Group Rhinovirus Receptor; CD54; ICAM1

Immunogen Information:

Sequence: Gln28-Glu480

Background:

Inter-Cellular Adhesion Molecule 1 (ICAM1) is a type of intercellular adhesion molecule continuously present in low concentrations in the membranes of leukocytes and endothelial cells. As an endothelial and leukocyte-associated transmembrane protein, ICAM1 is well known for its importance in stabilizing cell-cell interactions and facilitating leukocyte endothelial transmigration. The presence of heavy glycosylation and other structural characteristics lend ICAM1 binding sites for a number of immune-associated ligands. Notably, ICAM binds to macrophage adhesion ligand (Mac; ITGB2 / ITGAM), leukocyte function associated antigen (LFA/integrin), and fibrinogen. ICAM expressed by respiratory epithelial cells is also the binding site for rhinovirus, the causative agent of most common colds.