# Recombinant Human ICAM-1/CD54

Catalog Number: ADP4

## DESCRIPTION

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| **Source** | Mouse myeloma cell line, NS0-derived<br>Met1-Glu480<br>Accession # CAA30051 |
| **N-terminal Sequence Analysis** | Not obtained, Predicted Gln28 |
| **Predicted Molecular Mass** | 50 kDa |

## SPECIFICATIONS

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| **SDS-PAGE** | 70-90 kDa, reducing conditions |
| **Activity** | Measured by the ability of the immobilized protein to support the adhesion of PMA-stimulated HSB2 human peripheral blood acute lymphoblastic leukemia cells.<br>When 5 x $10^4$ cells/well are added to Recombinant Human ICAM-1/CD54 coated plates (12.5 µg/mL with 100 µL/well), >30% cells will adhere after 1 hour incubation at 37 °C.<br>**Optimal dilutions should be determined by each laboratory for each application.** |
| **Endotoxin Level** | <0.10 EU per 1 µg of the protein by the LAL method. |
| **Purity** | >90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining. |
| **Formulation** | Lyophilized from a 0.2 µm filtered solution in PBS, containing Calcium and Magnesium with Sorbitol and with Trehalose. See Certificate of Analysis for details. |

## PREPARATION AND STORAGE

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| **Reconstitution** | Reconstitute at 400 µg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 3 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

Intercellular Adhesion Molecule-1 (ICAM-1) binds the leukocyte integrins LFA-1 and Mac-1. ICAM-1 expression is weak on leukocytes, epithelial and resting endothelial cells, as well as some other cell types, but expression can be stimulated by IFN-γ, TNF-α, IL-1β and LPS. Soluble ICAM-1 is found in a biologically active form in serum, probably as a result of proteolytic cleavage from the cell surface, and is elevated in patients with various inflammatory syndromes such as septic shock, LAD, cancer and transplantation.



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