Recombinant Human ICAM-1/CD54 Fc Chimera
Catalog Number: 720-IC

DESCRIPTION

Source
Mouse myeloma cell line, NS0-derived

Human ICAM-1
Gln28-Glu480
Accession # CAA30051

IEGRMD

Human IgG₁
(Pro100-Lys330)

N-terminal Sequence Analysis
No results obtained: Gln28 predicted

Structure / Form
Disulfide-linked homodimer

Predicted Molecular Mass
76 kDa (monomer)

SPECIFICATIONS

SDS-PAGE
110-125 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.
When 5 x 10⁴ cells/well are added to recombinant human ICAM Fc Chimera coated plates (12.5 µg/mL with 100 µL/well), >60% will adhere after PMA 1 hour incubation at 37 °C.
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
>95%, 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. See Certificate of Analysis for details.

PREPARATION AND STORAGE

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.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 12 weeks, -20 to -70 °C under sterile conditions after reconstitution.

DATA

SDS-PAGE
1 µg/lane of Recombinant Human ICAM-1/CD54 Fc Chimera was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by silver staining, showing bands at 110 kDa and 190 kDa, respectively.

BACKGROUND

Intercellular Adhesion Molecule-1 (ICAM-1, CD54) 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.

References:

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