Recombinant Human ICAM-2/CD102 Fc Chimera
Catalog Number: 803-I2

DESCRIPTION

Source
Mouse myeloma cell line, NS0-derived

Human ICAM-2
(Lys25 - Gln223)
Accession # CAA33630

IEGRMD

Human IgG1
(Pro100 - Lys330)

6-His tag

N-terminal Sequence Lys25

Structure / Form Disulfide-linked homodimer

Predicted Molecular Mass 50 kDa (monomer)

SPECIFICATIONS

SDS-PAGE 86 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 10^4 cells/well are added to rhICAM-2/Fc Chimera coated plates (12.5 µg/mL with 100 µL/well), >70% will adhere after 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 under reducing conditions and visualized by silver stain.

Formulation Lyophilized from a 0.2 µm filtered solution in PBS containing Calcium and Magnesium with Sorbitol. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.4 mg/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.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Intercellular Adhesion Molecule-2 (ICAM-2, CD102), a member of the immunoglobulin superfamily, binds the leukocyte integrins LFA-1 (CD11a/CD18) and Mac-1 (CD11b/CD18). ICAM-2 is constitutively expressed at high levels on vascular endothelial cells and lymphohematopoietic cells. ICAM-2 mediated adhesion has been shown to provide a co-stimulatory signal for T cell aggregation, NK cytotoxicity and NK cell migration.

References: