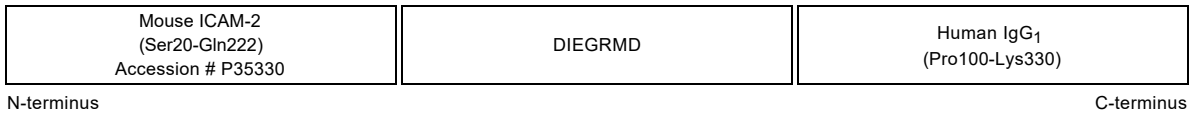
Recombinant Mouse ICAM-2/CD102 Fc Chimera

Catalog Number: 774-M2

DESCRIPTION

Source

Mouse myeloma cell line, NS0-derived mouse ICAM-2/CD102 protein



N-terminal Sequence Analysis	Ser20
Structure / Form	Disulfide-linked homodimer
Predicted Molecular Mass	49.5 kDa (monomer)

SPECIFICATIONS

SDS-PAGE	75-80 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. Recombinant Mouse ICAM-2/CD102 Fc Chimera immobilized at 12.5 µg/mL (100 µL/well) will induce >65% cell adhesion. **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 Tris, Citric Acid and NaCl. 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. The mouse and human ICAM-2 proteins share 60% amino acid identity. Human LFA-1 binds equally well to human or mouse ICAM-2.

References:

1. Somersalo, K. *et al.* (1995) J. Biol. Chem. **270:**8629.
2. Hayflick, J. *et al.* (1998) Immunologic Res. **17**:313.
3. Xu, H. (1992) J. Immunol. **149**:2650.

Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 **Canada** TEL 855 668 8722 **China** TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449