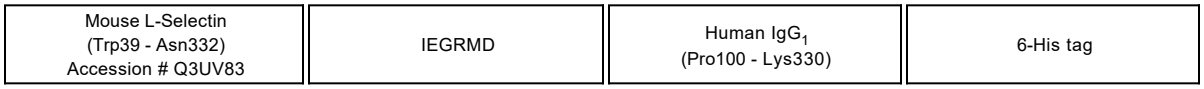
Recombinant Mouse L-Selectin/CD62L Fc Chimera

Catalog Number: 576-LS

DESCRIPTION

Source Mouse myeloma cell line, NS0-derived



N-terminal Sequence Analysis Trp39

Structure / Form Disulfide-linked homodimer

Predicted Molecular Mass 60.5 kDa (monomer)

SPECIFICATIONS

SDS-PAGE 150 kDa, reducing conditions

Activity Measured by the ability of the immobilized protein to support the adhesion of LS180 human colorectal adenocarcinoma cells. When 5 x 10^4 cells/well are added to Recombinant Mouse L-Selectin/CD62L Fc Chimera coated plates, adhesion is induced in a dose dependent manner after a 1 hour incubation at 37 °C. The ED_{50} for this effect is 0.3-1.2 µg/mL.

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 under reducing conditions and visualized by silver stain.

Formulation Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.1 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

L-Selectin (also known as Leukocyte Selectin, LAM-1, LECAM-1, LECCAM-1, TQ1, Leu-8, MEL-14 antigen, DREG, lymph node homing receptor, and CD62L), a member of the Selectin family, is a cell surface glycoprotein expressed constitutively on a wide variety of leukocytes. Two forms of L-Selectin have been reported, apparently arising as a result of post-translational modifications. The lymphocyte form shows an apparent molecular weight of 74 kDa, while the neutrophil form is 90 - 100 kDa. Human and mouse L-Selectin share 76% amino acid sequence homology.

L-Selectin plays a role in the migration of lymphocytes into peripheral lymph nodes and sites of chronic inflammation, and of neutrophils into acute inflammatory sites. Acting in cooperation with P-Selectin and E-Selectin, L-Selectin mediates the initial interaction of circulating leukocytes with endothelial cells that produces a characteristic "rolling" of the leukocytes on the endothelium. This initial interaction involving ICAM-1 and VCAM-1 leads eventually to extravasation of the white blood cell through the blood vessel wall into the extracellular matrix tissue.

ELISA techniques have shown that detectable levels of soluble L-Selectin are present in the biological fluids of apparently normal individuals. Furthermore, a number of studies have reported that levels of L-Selectin may be elevated or lowered in subjects with a variety of pathological conditions.

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