

DESCRIPTION

Source Mouse myeloma cell line, NS0-derived mouse L-Selectin/CD62L protein
Trp39-Asn332, with a C-terminal 6-His tag
Accession # P18337

N-terminal Sequence Analysis Trp39

Predicted Molecular Mass 34 kDa

SPECIFICATIONS

SDS-PAGE 62-83 kDa, reducing conditions

Activity Measured by its binding ability in a functional ELISA.
When Recombinant Mouse L-Selectin/CD62L is immobilized at 2 µg/mL (100 µL/well), the concentration of Recombinant Mouse MAdCAM-1 Fc Chimera (Catalog # 993-MC) that produces 50% of the optimal binding response is 2-12 µg/mL.

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 500 µg/mL in PBS.

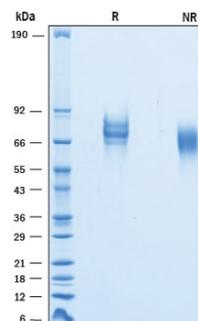
Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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 °C under sterile conditions after reconstitution.

DATA

SDS-PAGE



2 µg/lane of Recombinant Mouse L-Selectin/CD62L was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands at 62-83 kDa.

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.