

DESCRIPTION

Source	Mouse myeloma cell line, NS0-derived			
	Human L-Selectin (Trp39 - Asn332) Accession # P14151	IEGRMD	Human IgG ₁ (Pro100 - Lys330)	6-His tag
	N-terminus		C-terminus	
N-terminal Sequence	Trp39			
Analysis				
Structure / Form	Disulfide-linked homodimer			
Predicted Molecular Mass	60.4 kDa (monomer)			

SPECIFICATIONS

SDS-PAGE	90-100 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 Human L-Selectin/CD62L Fc Chimera coated plates, adhesion is induced in a dose dependent manner after 1 hour incubation at 37 °C. The ED ₅₀ for this effect is 0.4-2 µg/mL. Optimal dilutions should be determined by each laboratory for each application.
Endotoxin Level	<0.01 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. <ul style="list-style-type: none"> ● 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, 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 (aa) 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, also 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.