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Recombinant Human L-Selectin/CD62L

RDSYSTEMS

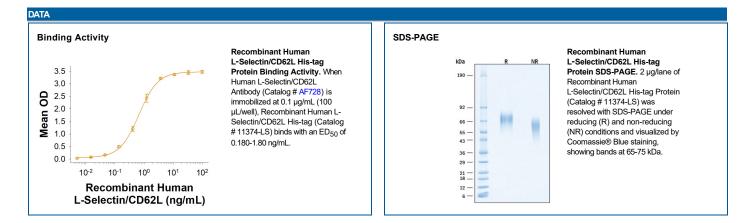
His-tag Catalog Number: 11374-LS

Source	Chinese Hamster Ovary cell line, CHO-derived human L-Selectin/CD62L protein Trp52-Leu332, with a C-terminal 6-His tag
	Accession # EAW90856.1
N-terminal Sequence Analysis	Trp52
Predicted Molecular Mass	32 kDa

SPECIFICATIONS	
SDS-PAGE	65-75 kDa, under reducing conditions.
Activity	Measured by its binding ability in a functional ELISA. When Human L-Selectin/CD62L Antibody (Catalog # AF728) is immobilized at 0.1 μg/mL (100 μL/well), Recombinant Human L-Selectin/CD62L His-tag (Catalog # 11374-LS) binds with an ED ₅₀ of 0.180-1.80 ng/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 with Trehalose. 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 to -70 °C under sterile conditions after reconstitution.



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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

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Catalog Number: 11374-LS

BACKGROUND

L-Selectin, also known as Leukocyte adhesion molecule 1 (LAM-1) and CD62L, is a type-1 cell surface glycoprotein and cell adhesion molecule of the Selectin family (1). In humans, there are 3 Selectins, P, E, and L, and they are Ca2+ dependent lectins that help mediate the initial adhesive step during inflammation and immune surveillance (2). Mature L-Selectin consists of an extracellular domain (ECD) with a C-type lectin domain and an epidermal growth factor (EGF)-like domain, a transmembrane domain, and a short cytoplasmic domain. Within the ECD, human L-selectin shares 76% and 78% amino acid sequence identity with mouse and rat L-selectin, respectively. Several isoforms arising from alternative splicing have been reported, some with potential therapeutic implications (2,3). L-selectin is constitutively expressed on a wide variety of leukocytes and plays a role in the migration of lymphocytes into peripheral lymph nodes and sites of chronic inflammatory sites (1-4). 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 (5). 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 (6). L-selectin function is required for normal Treg cell migration and over expression might be result in reduced tumor growth (7). Several studies have reported that levels of L-Selectin may be elevated or lowered in subjects with a variety of conditions, such as in Alzheimer's disease or rheumatoid arthritis (3, 5).

References:

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- 4. Wedepohl, S. et al. (2012) Euro. J. Cell Biol. 91:257.
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- 6. Granger, D.N. and Senchenkova, E. (2010) Inflammation and the Microcirculation. San Rafael (CA): Morgan & Claypool Life Sciences Chapter 7.
- 7. Watson, H.A. et al. (2019) Frontiers in immunology 10:1321.

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