

## L-Selectin/CD62L Protein, Rat (HEK293, His)

<b>Cat. No.:</b>	HY-P76638
<b>Synonyms:</b>	L-selectin; LAM-1; LECAM1; TQ1; gp90-MEL; CD62L; SELL; LNHR; LYAM1
<b>Species:</b>	Rat
<b>Source:</b>	HEK293
<b>Accession:</b>	P30836 (W39-N332)
<b>Gene ID:</b>	29259
<b>Molecular Weight:</b>	Approximately 43-55 kDa due to the glycosylation

### PROPERTIES

<b>AA Sequence</b>	<p>W T Y H Y S E R S M    N W E N A R K F C K    H N Y T D L V A I Q    N K R E I E Y L E K</p> <p>T L P K N P T Y Y W    I G I R K I G K T W    T W V G T N K T L T    K E A E N W G T G E</p> <p>P N N K K S K E D C    V E I Y I K R E R D    S G K W N D D A C H    K R K A A L C Y T A</p> <p>S C Q P E S C N R H    G E C V E T I N N N    T C I C D P G Y Y G    P Q C Q Y V I Q C E</p> <p>P L K A P E L G T M    N C I H P L G D F S    F Q S Q C A F N C S    E G S E L L G N A K</p> <p>T E C G A S G N W T    Y L E P I C Q V I Q    C M P L A A P D L G    T M E C S H P L A N</p> <p>F S F T S A C T F T    C S E E T D L I G E    R K T V C R S S G S    W S S P S P I C Q K</p> <p>T K R S F S K I K E    G D Y N</p>
<b>Biological Activity</b>	Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. When $5 \times 10^4$ cells/well are added to Rat L-Selectin coated plates (10 $\mu\text{g}/\text{mL}$ , 100 $\mu\text{L}/\text{well}$ ), will induce 52.78% adhesion on U937 cells after 1 hour at 37°C.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 $\mu\text{m}$ filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/ $\mu\text{g}$ , determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

---

**Background**

L-Selectin/CD62L, a calcium-dependent lectin, plays a pivotal role in cell adhesion by binding to glycoproteins on adjacent cells. It facilitates the adherence of lymphocytes to the endothelial cells of high endothelial venules in peripheral lymph nodes, promoting the initial tethering and rolling of leukocytes within endothelial tissues. The recruitment and rolling of leukocytes are dependent on interactions with SELPLG/PSGL1 and PODXL2, where the sialyl Lewis X glycan modification of SELPLG and PODXL2, along with tyrosine sulfation modifications of SELPLG, are essential. Notably, the sulfation on 'Tyr-51' of SELPLG emerges as a critical factor for the binding of L-Selectin, underscoring its importance in facilitating cellular interactions and adhesive processes.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA