L-Selectin/CD62L Protein, Human (294a.a, HEK293, His)

Cat. No.:	HY-P72511
Synonyms:	L-selectin; LAM-1; LECAM1; TQ1; gp90-MEL; CD62L; SELL; LNHR; LYAM1
Species:	Human
Source:	HEK293
Accession:	P14151 (W39-N332)
Gene ID:	6402
Molecular Weight:	Approximately 56 kDa

PROPERTIES

AA Sequence	W T Y H Y S E K P M N W Q R A R R F C R D N Y T D L V A I Q N K A E I E Y L E K T L P F S R S Y Y W I G I R K I G G I W T W V G T N K S L T E E A E N W G D G E P N N K K N K E D C V E I Y I K R N K D A G K W N D D A C H K L K A A L C Y T A S C Q P W S C S G H G E C V E I I N N Y T C N C D V G Y Y G P Q C Q F V I Q C E P L E A P E L G T M D C T H P L G N F S F S S Q C A F S C S E G T N L T G I E E T T C G P F G N W S S P E P T C Q V I Q C E P L S A P D L G I M N C S H P L A S F S F T S A C T F I C S E G T E L I G K K K T I C E S S G I W S N P S P I C Q K L D K S F S M I K E G D Y N
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of THP-1 human prostate cancer cells. The ED_{50} for this effect is 0.4739 μg/mL, corresponding to a specific activity is 2.11×10^4 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	L-Selectin, also known as CD62L, is a calcium-dependent lectin that plays a crucial role in mediating cell adhesion by

binding to glycoproteins on neighboring cells. Functionally, it facilitates the adherence of lymphocytes to endothelial cells within high endothelial venules in peripheral lymph nodes, promoting the initial tethering and rolling of leukocytes in endothelial tissues. L-Selectin's interaction with SELPLG/PSGL1 and PODXL2 is vital for the recruitment and rolling of leukocytes. This interaction is specifically dependent on the sialyl Lewis X glycan modification of SELPLG and PODXL2, along with tyrosine sulfation modifications of SELPLG. Notably, sulfation on 'Tyr-51' of SELPLG emerges as a critical factor for effective L-Selectin binding. The multifaceted functions of L-Selectin underscore its significance in orchestrating cell adhesion processes and immune cell recruitment.

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