
Product Data Sheet

Product Name: L-Selectin Human, Sf9
 Cat. No.: GP23837
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Selectin L; Leukocyte-Endothelial Cell Adhesion Molecule 1; CD62 Antigen-Like Family Member L; Leukocyte Surface Antigen Leu-8; Lymphocyte Adhesion Molecule 1; Lymph Node Homing Receptor; Gp90-MEL; LECAM1; LYAM1; LNHR; TQ1; Leukocyte Adhesion Molecule; Pln Homing Receptor; CD62L Antigen; L-Selectin; CD62L; PLNHR; LAM-1; LAM1; LEU8; LSEL; L-selectin.		
Amino Acid Sequence	ADPWTYHYSE KPMNWQRARR FCRDNYTDLV AIQNKAEIEY LEKTLPFSSRS YYWIGIRKIG GIWTWVGTKN SLTEEAENWG DGEPNNKKNK EDCVEIYIKR NKDAGKWNDD ACHKLKAALC YTASCQPWSC SGHGECVEII NNYTCNCDVG YYGPQCQFVI QCEPLEAPEL GTMDCTHPLG NFSFSSQCAF SCSEGTLNLG IEETTCGPFQ NWSSPEPTCQ VIQCEPLSAP DLGIMNCSHP LASFSFTSAC TFICSEGTEL IGKKKTICES SGIWSNPSPi CQKLDKSFMS IKEGDYNHHH HHH.		
Formulation	L-Selectin protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

L-Selectin belongs to a family of divalent cation-dependent carbohydrate-binding glycoproteins or adhesion molecules. The L-Selectin molecule is composed of various domains: one homologous to lectins, one to epidermal growth factor, and two to the consensus repeat units found in C3/C4 binding proteins. L-selectin is expressed constitutively on lymphocytes, monocytes and granulocytes and interacts specifically with carbohydrate groups on activated endothelial cells. L-Selectin may be shed by proteolytic cleavage and circulating levels in biological fluids may be used as an indicator of various pathological conditions. L-Selectin is cleaved by ADAM17. L-selectin works as a "homing receptor" for leukocytes to enter secondary lymphoid tissues via the

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

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high endothelial venules. Ligands present on endothelial cells will attach to leukocytes expressing L-selectin, which causes the leukocytes to become localized at that juncture. The receptor is also located on the cell surfaces of "naive" T cells, which have not yet encountered their particular antigen. This surface expression is lost following the cells activation.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

L-Selectin produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 303 amino acids (52-345a.a.) and having a molecular mass of 34.1kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). L-Selectin is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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