

Recombinant Human SELP, Fc-tagged

Cat. No. SELP-1674H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human P-Selectin (amino acid residues 1 - 771) was fused to the Fc region of human IgG1 via a polypeptide linker. Recombinant Human selectin P (granule membrane protein 140kDa, antigen CD62) was inserted into a suitable mammalian expression vector and expressed in <i>NSO cells</i> .
Species	Human
Source	Mammalian Cells
ProteinLength	1-771 a.a.
Description	Plasma Selectin (P-selectin) is a cell adhesion molecule (CAM) found in granules in endothelial cells (cells lining blood vessels) and activated platelets. P-Selectin is expressed on activated endothelium and platelets where it can bind monocytes, neutrophils, stimulated T cells, and platelets. P-selectin plays an essential role in the initial recruitment of leukocytes (white blood cells) to the site of injury during inflammation. When endothelial cells are activated by molecules such as histamine or thrombin during inflammation, P-selectin moves from an internal cell location to the endothelial cell surface. Thrombin is one trigger which can stimulate endothelial-cell release of P-selectin and recent studies suggest an additional Ca ²⁺ -independent pathway involved in release of P-selectin. P-selectin-mediated adhesion is an important factor in the development of early atherosclerotic lesions.
Molecular Weight	The predicted molecular weight of Recombinant Human P-Selectin is 106 kDa.

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However, the actual molecular weight as observed by migration on SDS Page is 146-160 kDa under reducing conditions.

State Of Matter

Lyophilized.

Formulation

This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.

Purity

>95% by SDS Page and analyzed by silver stain.

Endotoxin

<1.0 EU/g as determined by the LAL method.

Biological Activity

Measured by its ability to bind P-Selectin ligands on U937 cells. P-Selectin/Fc immobilized at 10 µg/ml will induce greater than 50% adhesion on U937 cells (100 µl/well at 1 x 10⁶ cells/ml).

Storage

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name

SELP selectin P (granule membrane protein 140kDa, antigen CD62) [Homo sapiens]

Synonyms

selectin P (granule membrane protein 140kDa, antigen CD62); CD62; GRMP; PSEL; CD62P; GMP140; LECAM3; PADGEM; FLJ45155; SELP; selectin P;

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OTTHUMP00000032609 ; granulocyte membrane protein; platelet alpha-granule membrane protein; leukocyte-endothelial cell adhesion molecule 3; GMP-140; GMRP; selectin P (granule membrane protein 140kD, antigen CD62); Granule membrane protein 140; CD62P antigen; CD62 antigen-like family member P

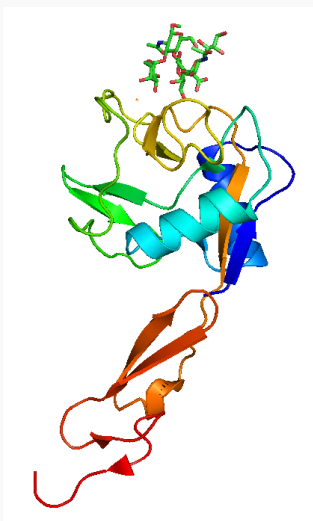
Gene ID	6403
mRNA Refseq	NM_003005
Protein Refseq	NP_002996
MIM	173610
UniProt ID	P16109
Chromosome Location	1q22-q25
Pathway	Cell adhesion molecules (CAMs); Hemostasis; Signaling in Immune system
Function	calcium-dependent protein binding; eukaryotic cell surface binding; fucose binding; glycoprotein binding; glycosphingolipid binding; heparin binding; lipopolysaccharide binding; oligosaccharide binding; sialic acid binding; sugar binding

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PDB rendering based
on pdb 1gsr.



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