

Active Recombinant Human SELP, Fc Chimera

Cat. No. SELP-457H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Plasma Selectin was fused to the Fc region of human IgG1 (aa 93-330). The chimeric protein was expressed in modified <i>human 293 cells</i> .
Species	Human
Source	HEK293
Description	P-selectin (Plasma Selectin), a member of the Selectin family of cell adhesion molecules, is important in the recruitment of leukocytes to the site of injury during inflammation. Following stimulation with thrombin, histamine, PMA or peroxides P Selectin is released from granules within endothelial cells and is then translocated to the cell surface. P-Selectin binds to P-selectin glycoprotein ligand1 (PSGL1) present on myeloid cells, neutrophils, monocytes and lymphocytes. P-Selectin is involved in the initial interaction of circulating leucocytes with the endothelium at sites of inflammation. Acting with L-Selectin and E-selectin, P-Selectin causes the extravasation of the white blood cell through the blood vessel wall into the extracellular matrix tissue.
Molecular Mass	P-Selectin-Fc Chimera migrates as a broad band between 110 to 150 kDa in SDS-PAGE due to post-translation modifications, in particular glycosylation. This compares with the unmodified P-Selectin-Fc Chimera that has a predicted molecular mass of 111.8kDa.
PI	P-Selectin-Fc Chimera separates into a number of isoforms with a pI between 4.4 and

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7.8 in 2D PAGE due to post-translational modifications, in particular glycosylation. This compares with the unmodified P-Selectin-Fc Chimera that has a predicted pI of 6.37.

Glycosylation	P-Selectin-Fc Chimera has N-linked and O-linked oligosaccharides.
Purity	>95%, as determined by SDS-PAGE and visualized by silver stain.
Formulation	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Storage	Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C.
Activity	P-Selectin-Fc was shown to be active by its ability to bind HL 60 cells in a cell adhesion assay in a dose dependent manner.

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; 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

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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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