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Recombinant Human P-Selectin/SELP/CD62P Protein

Catalog No.: RP01397 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	6403	P16109

Tags
C-hFc&His

Synonyms
CD62; CD62P; GMP140; GRMP; LECAM3; PADGEM; PSEL;CD62P/P-selectin;SELP;CD62P;GMP140;GRMP;LECAM3;PADGEM;PSEL

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
106.75 kDa	130-170 kDa

Endotoxin
<1EU/μg

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

P selectin (SELP) is a 140kDa protein that is stored in the alpha-granules of platelets and Weibel-Palade bodies of endothelial cells. SELP mediates rapid rolling of leukocyte rolling over vascular surfaces during the initial steps in inflammation through interaction with PSGL1. P selectin is a cell adhesion molecule on the surface of activated endothelial cells. Cellular adhesion molecules are a large family of proteins that attach the cytoskeleton and intracellular signaling cascades with the extracellular environment. SELP is a calcium-dependent receptor for myeloid cells that binds to sialylated forms of Lewis blood group carbohydrate antigens on neutrophils and monocytes. This protein redistributes to the plasma membrane during platelet activation and degranulation and mediates the interaction of activated endothelial cells or platelets with leukocytes.

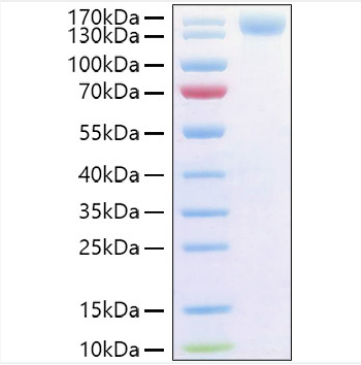
Basic Information

Description
Recombinant Human P-Selectin/SELP/CD62P Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Trp42-Ala771) of human P-Selectin/CD62P (Accession #NP_002996.2) fused with a Fc, 6×His tag at the C-terminus.

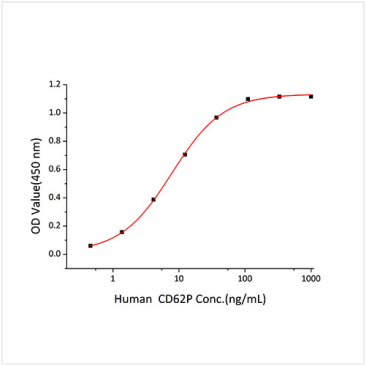
Bio-Activity
Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. When 5 x 10E4 cells/well are added to Human SELP coated plates (10 μg/mL with 100 μL/well), > 80% cells will adhere after 1 hour at 37℃.|2.Measured by its binding ability in a functional ELISA.Immobilized PE Mouse Anti-Human CD62P Antibody at 1μg/mL (25 μL/well) can bind Human CD62P with a linear range of 0.46-7.82 ng/mL.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human SELP/P-Selectin/CD62P Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 130-170kDa.



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