Recombinant Human P-Selectin/SELP/CD62P Protein

Catalog No.: RP01397

Sequence Information

Species
Human

Gene ID
6403

Swiss Prot
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
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
106.75 kDa

Observed MW
130-170 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

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.

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.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

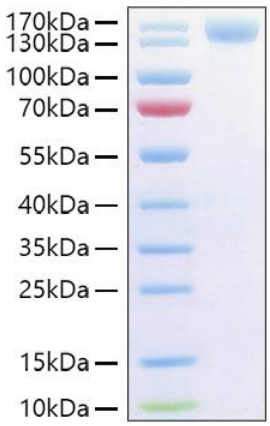
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

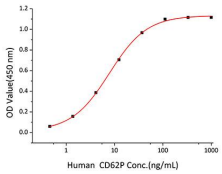
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Validation Data



Recombinant Human P-Selectin/SELP/CD62P Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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.