

RP01397

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Recombinant Human P-Selectin/SELP/CD62P Protein

Catalog No.: RP01397

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	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

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Purification

≥ 95 % as determined by SDS-PAGE.

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

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 10⁴ 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°C. | 2. Measured by its binding ability in a functional ELISA. Immobilized PE Mouse Anti-Human CD62P Antibody at 1 μg/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.

Operational Notes

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

Storage

Store at -20°C. Avoid repeated freeze/thaw cycles.

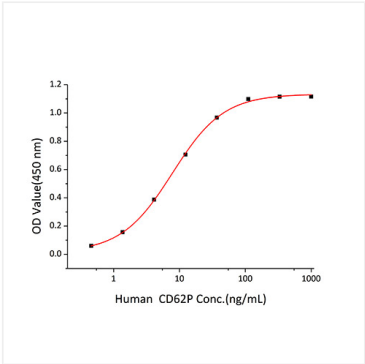
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Contact

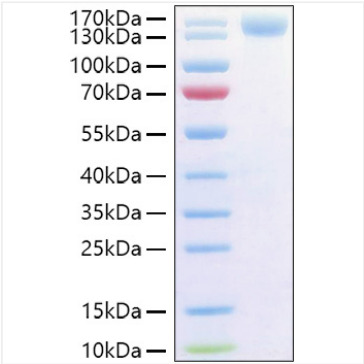


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Validation Data



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.



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