



Recombinant Protein Technical Manual

**Recombinant Mouse SELP/selectin P/P-selectin
Protein (His Tag)(Active)**
RPES4860

Product Data:

Product SKU: RPES4860

Size: 50µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: Q01102

Protein Information:

Molecular Mass: 74 kDa

AP Molecular Mass: 116 kDa

Tag: C-His

Bio-activity: Measured by the ability of the immobilized protein to support the adhesion of U937 cells. When 5×10^4 cells/well are added to SELP-coated plates (5 µg/mL and 100 µL/well), approximately >70% cells will adhere specifically after 60 minutes at 37°C.

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: CD62P;GMP40;Grmp;LECAM3;PADGEM

Immunogen Information:

Sequence: Met1-Ala709

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.