



Recombinant Protein Technical Manual

Recombinant Mouse P-selectin/CD62P Protein (AVI & His Tag)

RPES2408

Product Data:

Product SKU: RPES2408

Size: 20µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q01102

Protein Information:

Molecular Mass: 75.2 kDa

AP Molecular Mass: 11030 kDa

Tag: C-AVI-His

Bio-activity:

Purity: > 90% as determined by reducing SDS-PAGE.

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

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2 µm filtered solution of PBS, pH7.4.

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

Application:

Synonyms: P-selectin; CD62 antigen-like family member P; Granule membrane protein 140; GMP40; Leukocyte-endothelial cell adhesion molecule 3; LECAM3; PADGEM

Immunogen Information:

Sequence: Trp42-Ala709

Background:

P-selectin/CD62P is a single-pass type I membrane protein which is a member of the Selectin family. It consists 768 amino acid (aa). P-selectin is a cell surface glycoprotein expressed by activated platelets and endothelial cells. It induced expression in lung, liver, kidney and heart after endotoxin treatment. Ca^{2+} -dependent receptor for myeloid cells that binds to carbohydrates on neutrophils and monocytes. It mediates the interaction of activated endothelial cells or platelets with leukocytes. The ligand recognized is sialyl-Lewis X. It also mediates rapid rolling of leukocyte rolling over vascular surfaces during the initial steps in inflammation through interaction with PSGL1. P-selectin interacts with SNX17, PSGL1/SEPL, PODXL2, mediates neutrophil adhesion and leukocyte rolling. This interaction requires the sialyl-Lewis X epitope of PSGL1 and PODXL2, and specific tyrosine sulfation on PSGL1.