Human P-Selectin / CD62P Protein, Fc Tag

Catalog # SEP-H5255

Synonym

P-Selectin,CD62P,SELP,GMP-140

Source

Human P-Selectin, Fc Tag(SEP-H5255) is expressed from human 293 cells (HEK293). It contains AA Trp 42 - Ala 771 (Accession # AAN06828).
Predicted N-terminus: Trp 42

Molecular Characterization

P-Selectin(Trp 42 - Ala 771) AAN06828	Fc(Pro 100 - Lys 330) P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 106.6 kDa. The protein migrates as 130-180 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in
Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

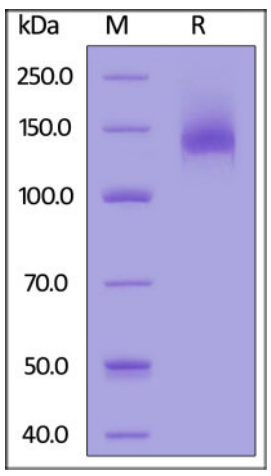
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human P-Selectin, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Background

P-selectin (SELP) is also known as CD62 antigen-like family member P, granule membrane protein 140 (GMP-140), leukocyte-endothelial cell adhesion molecule 3 (LECAM3) and platelet activation dependent granule-external membrane protein (PADGEM). SELP functions as a cell adhesion molecule (CAM) on the surfaces of activated endothelial cells, which line the inner surface of blood vessels, and activated platelets. In unactivated endothelial cells, it is stored in granules called Weibel-Palade bodies. In unactivated platelets SELP is stored in α-granules. The primary ligand for SELP is P-selectin glycoprotein ligand-1 (PSGL-1) which is expressed

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on almost all leukocytes, although P-selectin also binds to heparan sulfate and fucoidan. Furthermore, SELP has a functional role in metastasis of tumor similar to E-selectin, which can help cancer cells invade into bloodstream for metastasis and provided locally with multiple growth factors respectively.

Clinical and Translational Updates