

Synonym

PSGL1,CD162,SELPLG,Selectin P ligand

Source

Human PSGL-1, His Tag (PS1-H52H9) is expressed from human 293 cells (HEK293). It contains AA Gln 42 - Cys 320 (Accession # [Q14242-1](#)).

Predicted N-terminus: Gln 42

Molecular Characterization

PSGL-1(Gln 42 - Cys 320)
Q14242-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 30.7 kDa. The protein migrates as 55-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

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.

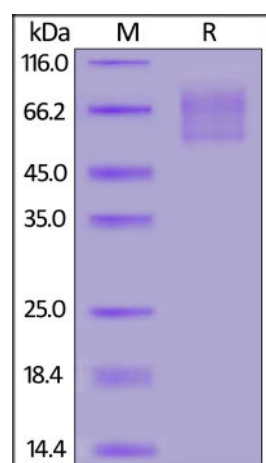
Storage

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

Please avoid repeated freeze-thaw cycles.

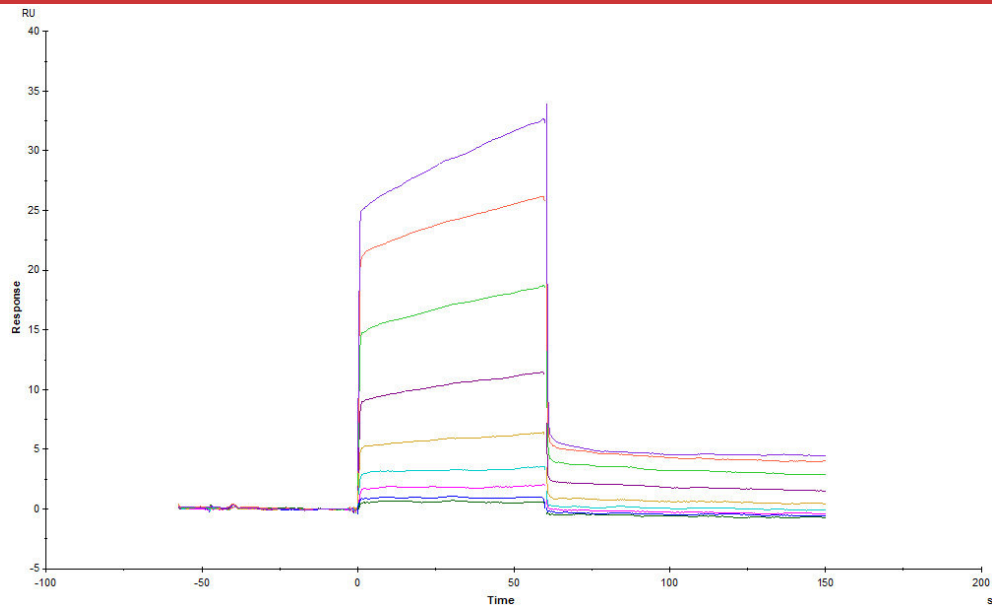
This product is stable after storage at:

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

SDS-PAGE

Human PSGL-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-SPR



Human PSGL-1, His Tag (Cat. No. PS1-H52H9) immobilized on CM5 Chip can bind Human B7-H5, Fc Tag (Cat. No. B75-H5259) with an affinity constant of 0.213 μ M as determined in a SPR assay (Biacore T200) (Routinely tested).

Background

P-selectin glycoprotein ligand 1 (PSGL-1) is also known as Selectin P ligand (SELPLG), CD antigen CD162. PSGL-1 is disulfide-linked homodimer which is the high affinity counter-receptor for P-selectin on expressed on activated endothelial cells and platelets. PSGL-1 / SELPLG interacts with P-, E- and L-selectins, through their lectin/EGF domains, is required for promoting recruitment and rolling of leukocytes. These interactions require sialyl Lewis X glycan modification but there is a differing dependence for tyrosine sulfations. Dimerization appears not to be required for P-selectin/SELP binding. PSGL-1 can interact with SNX20, MSN and SYK. PSGL-1 / SELPLG mediate the activation of SYK by SELPLG.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.