

Synonym

PSGL1,CD162,SELPLG,Selectin P ligand

Source

Biotinylated Human PSGL-1, His,Avitag (PS1-H82E4) 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

Avi

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 32.4 kDa. The protein migrates as 55-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Biotinylation

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Biotin:Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

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.

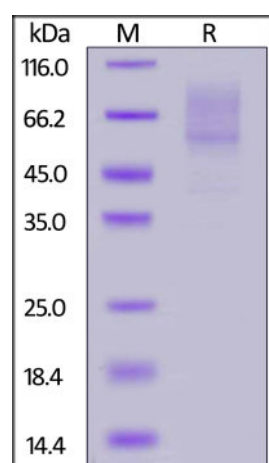
Storage

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

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

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.