

Recombinant Human SELPLG Protein, Fc-tagged

Cat. No. SELPLG-531H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SELPLG (AAC50061.1) (Met1-Val295) was expressed with the Fc region of mouse IgG1 at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met1-Val295
Description	<p>P-selectin glycoprotein ligand-1 (PSGL-1), also known as SELPLG or CD162, is the high affinity counter-receptor for P-selectin on expressed on activated endothelial cells and platelets. PSGL-1 is a mucin-type glycoprotein, expressed on leukocytes and platelets as a homodimer of two disulfide-linked subunits of ~120 kD. As cell adhesion molecules, multiple studies have shown that PSGL-1/ P-selectin interaction is required for the normal recruitment of leukocytes during inflammatory reactions, and also participates in hemostatic responses. PSGL-1 protein requires two distinct posttranslational modifications for the Ca²⁺-dependent recognition by the lectin domain of P-selectin, that is tyrosine sulfation and specific O-linked glycosylation (sialic acid and fucose). PSGL-1 can also bind to other two members of the selectin family, E-selectin (endothelial) and L-selectin (leukocyte), but binds best to P-selectin.</p>
Predicted N Terminal	Leu 18
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and

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0.01% Tween80 are added as protectants before lyophilization.

Molecular Mass

The recombinant human SELPLG consists of 512 amino acids and predicts a molecular mass of 55.4 kDa.

Endotoxin

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

Purity

> 95 % as determined by SDS-PAGE.

Storage

Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name

SELPLG selectin P ligand [Homo sapiens]

Official Symbol

SELPLG

Synonyms

SELPLG; selectin P ligand; P-selectin glycoprotein ligand 1; CD162; PSGL 1; cutaneous lymphocyte-associated associated antigen; CLA; PSGL1; PSGL-1;

Gene ID

6404

mRNA Refseq

NM_001206609

Protein Refseq

NP_001193538

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MIM	600738
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UniProt ID	Q14242
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