

PSGL-1/CD162 Protein, Mouse, Recombinant

General Information

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| Synonyms: | Psgl1;Selpl;Psgl-1;Selp1;CD162;selectin P ligand |
| Protein Construction: | A DNA sequence encoding the extracellular domain of mouse SELPLG (Q62170) (Met1-Cys307) was expressed with six amino acids (LEVLFQ) at the C- terminus. Predicted N terminal: Leu 18 |
| Species: | Mouse |
| Expression Host: | HEK293 Cells |
| Accession: | Q62170 |
| Molecular Weight: | 31.2 kDa (predicted); 54.9 kDa (reducing conditions) |

QC Testing

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| Biological Activity: | Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 85 % as determined by SDS-PAGE |
| Endotoxin: | < 1.0 EU/µg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization. |

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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 ~12 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.

Reference

- Sako, D., et al. 1993, Cell. 75: 1179-1186.2.
Wilkins, P. P. et al., 1995, J. Biol. Chem. 270: 22677-22680.3.
Frenette, P. S. et al., 2000, J. Exp. Med. 191: 1413-1422.4.
Vandendries, E.R .et al., 2004, Thromb. Haemost. 92: 459-466..5.
Pouyani, T. et al., 1995, Cell. 83: 333-343.

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