

PSGL-1/CD162 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	Selectin P ligand;P-selectin glycoprotein ligand 1;SELPLG;CD162;PSGL-1
Protein Construction:	Gln42-Gly295
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q14242
Molecular Weight:	100-130 KDa (reducing condition)
AA Sequence:	Gln42-Gly295

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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

PSGL-1 (CD162), is a mucintype glycoprotein that plays a key role in leukocyte adhesion. Human PSGL-1 cDNA encodes 412 amino acids (aa). It expressed on neutrophils, monocytes and most lymphocytes. The mature PSGL-1 (aa 42-412) is expressed as a disulfide-linked homodimer that signals intracellularly and promotes integrin activation. PSGL-1 is found on virtually all leukocytes, dendritic cells, platelets, and some endothelial cells. It is primarily responsible for early events in extravasation, especially rolling adhesion of leukocytes to vascular

endothelium. Through high affinity, This SLe(x)-type proteoglycanPGSL-1 calcium-dependent interactions with E-, P- and L-selectins, mediates rapid rolling of leukocytes over vascular surfaces during the initial steps in inflammation.

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