Human PSGL-1 / CD162 / SELPLG Protein (His Tag)

Catalog Number: 13863-H08H

Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CD162; CLA; PSGL-1; PSGL1

Protein Construction:

A DNA sequence encoding the human SELPLG (Q14242-1) (Met1-Gly295) with a C-terminal polyhistidine tag was expressed.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

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

Predicted N terminal: Leu 18

Molecular Mass:

The recombinant human SELPLG comprises 289 amino acids and has a predicted molecular mass of 30.5 kDa. The apparent molecular mass of the protein is approximately 89 and 61 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Stability & Storage:
Samples are stable for twelve months from date of receipt at -20℃ to -80℃.

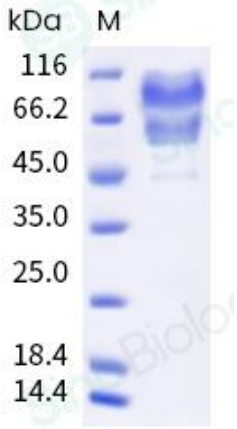
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

P-selectin glycoprotein ligand-1 (PSGL-1), also known as SELPLG or CD162, is the high affinity ounter-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.

References

1.1. Sako, D. et al., 1993, Cell. 75: 1179-1186. 2.2. Wilkins, P. P. et al., 1995, J. Biol. Chem. 270: 22677-22680. 3.3. Frenette, P. S. et al., 2000, J. Exp. Med. 191: 1413-1422.