

# Recombinant human PSGL-1/CD162 protein

Catalog Number: ATGP3999

## PRODUCT INFORMATION

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### Expression system

HEK293

### Domain

42-295aa

### UniProt No.

Q14242

### NCBI Accession No.

AAC50061.1

### Alternative Names

SELPLG, CLA, CD162, P-selectin glycoprotein ligand 1, PSGL1, Selectin P ligand, PSGL-1, ligand for P-selectin

## PRODUCT SPECIFICATION

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### Molecular Weight

53.4kDa (496aa)

### Concentration

1mg/ml (determined by Absorbance at 280nm)

### Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS - PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

hIgG-His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

PSGL-1, also known CD162 or SELPLG, is a mucin-type glycoprotein that functions as a high affinity counter-receptor for the cell adhesion molecules P-, E and L- selectin expressed on myeloid cells and stimulated T lymphocytes. This protein plays a key role in leukocyte adhesion. As such, it plays a critical role in leukocyte trafficking during inflammation by tethering of leukocytes to activated platelets or endothelia expressing

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selectins. PSGL-1 binds chemokines such as CCL19, CCL21, and CCL27, promoting chemotaxis of hematopoietic stem cells and plasma cells to the bone marrow and T cell homing to lymphoid organs. This protein requires two post-translational modifications, tyrosine sulfation and the addition of the sialyl Lewis x tetrasaccharide (sLex) to its O-linked glycans, for its high-affinity binding activity. Aberrant expression of this gene and polymorphisms in this gene are associated with defects in the innate and adaptive immune response. Recombinant human PSGL-1, fused to hIgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

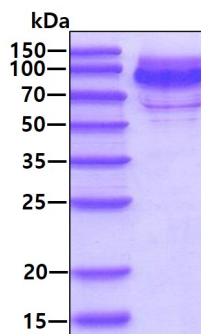
<DGS>QATEY EY LDYDFLPETE PPEMLRNSTD TTPLTGP GTP ESTTVEPAAR RSTGLDAGGA VTELTTELAN MGNLSTDSAA MEIQTTQ PAA TEAQTTP LAA TEAQTTRLTA TEAQTTP LAA TEAQTTP PAA TEAQTTP TQPTG LEAQT TAPAA MEAQT TAPAA MEAQTTP PAA MEAQT TQTTA MEAQT TAPEA TEAQT TQPTA TEAQT TP LAA MEALSTEPSA TEALSMEPTT KRGLFIPFSV SSVTHKGIPM AASNLSV<LEP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLNQD WLN GK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE LTKNQVSLTLC LVKGFYPSDI AVEWESNGQP ENNYKTT PPV LDSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK HHHHHH>

## General References

Carlisle R., et al, (2013) Pharm Res. 30:352-361.  
 Tinoco R., et al, (2016) Immunity. 44:1190-1203.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain