

# Recombinant human PSGL-1/CD162 protein

Catalog Number: ATGP2530

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

42-121aa

**UniProt No.**

Q14242

**NCBI Accession No.**

NP\_002997

**Alternative Names**

P-selectin glycoprotein ligand 1 isoform 2 precursor, CD162, CLA, PSGL-1, PSGL1

## PRODUCT SPECIFICATION

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**Molecular Weight**

10.9 kDa (103aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

**Concentration**

0.25mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

**Purity**

&gt; 80% by SDS-PAGE

**Tag**

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**

SELPLG is a 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. As such, this protein plays a critical role in leukocyte trafficking during inflammation by tethering of leukocytes to activated platelets or endothelia expressing selectins. 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

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adaptive immune response. Alternate splicing results in multiple transcript variants. Recombinant human SELPLG protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSQATEY EY LDYDFLPETE PPEMLRNSTD TTPLTGPGTP ESTTVEPAAR RSTGLDAGGA  
VTELTTELAN MGNLSTDSAA MEI

## General References

Stubke K, Wicklein D, et al. (2012). Cancer Lett. 321(1):89-99.

Gong L, Cai Y, et al. (2012). Pathol Oncol Res. 18(4):989-96.

## DATA

### SDS-PAGE

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

