

AR51350PU-S

Human CD162 / PSGL1 (42-121, His-tag) - Purified

Alternate names:

P-selectin glycoprotein ligand 1, PSGL-1, SELPLG, Selectin P ligand

Quantity:

20 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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 adaptive immune response. Alternate splicing results in multiple transcript variants.

Uniprot ID:

[Q14242](#)

NCBI:

[NP_002997](#)

GenelD:

[6404](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >80% by SDS - PAGE

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

Description:

Recombinant human SELPLG protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

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

Molecular weight: 10.9 kDa (103aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Stübke 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.

Pictures:

