For Research Use Only

Recombinant Human PLVAP protein (rFc Tag)

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Catalog Number: Eg5463

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human PLVAP protein Tyr49-Gly442 (Accession# Q9BX97) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
83483

Accession:
Q9BX97

Predicted Molecular Mass:
70.7 kDa

SDS-PAGE:
75-95 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Plasmalemma vesicle-associated protein (PLVAP) is an endothelial-associated protein involved in endothelial diaphragm formation and maintenance of basal vascular permeability. At the same time, PLVAP has roles in immunity by facilitating leukocyte diapedesis at inflammatory sites and controlling peripheral lymph node morphogenesis and the entry of soluble antigens into lymph node conduits. Structurally, PLVAP forms sieve-like diaphragms across fenestral pores and caveolae, acting as a size-selective barrier. PLVAP deficiency in mice leads to complete loss of endothelial diaphragms, resulting in severe vascular leakage, impaired immune cell trafficking, and neonatal lethality, underscoring its essential role in both vascular and immune functions.

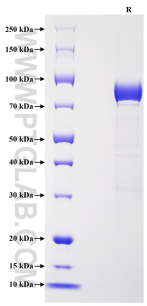
References

1.Wen, Yuting et al. Journal of cancer research and clinical oncology vol. 149,10 (2023): 7139-7153.
2.Wilkinson, Alex L et al. iScience vol. 26,10 (2023): 107966.

Synonyms

FELS, Fenestrated endothelial-linked structure protein, gp68, Plasmalemma vesicle-associated protein, PV 1

Selected Validation Data



Purity of Recombinant Human PLVAP was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.