

Human PLVAP Protein

Cat. No. PVP-HM101



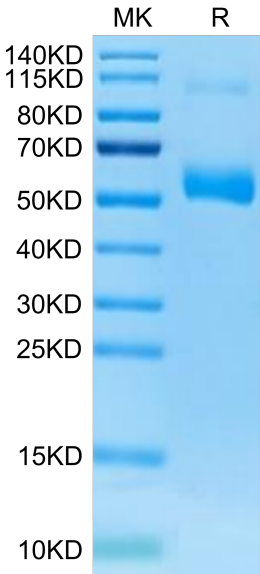
Description	
Source	Recombinant Human PLVAP Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Tyr49-Gly442.
Accession	Q9BX97
Molecular Weight	The protein has a predicted MW of 45.97 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS, 200mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
Plasmalemma vesicle-associated protein (PLVAP, also called PV-1) is the only protein that forms endothelial diaphragms. PLVAP expression is very low in the normal blood-retinal barrier; however, pathological factors such as high glucose and vascular endothelial growth factor (VEGF) induce its expression, leading to the exacerbation of cellular permeability. Because the new blood vessels are fragile and leaky, PLVAP could possibly be considered a therapeutic target against retinovascular diseases.	

Assay Data

Bis-Tris PAGE



Human PLVAP on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.