

## PLVAP Protein, Human (HEK293, His)

Cat. No.:	HY-P700879
Synonyms:	Plasmalemma vesicle-associated protein; FELS; PV1
Species:	Human
Source:	HEK293
Accession:	Q9BX97 (Y49-G442)
Gene ID:	83483
Molecular Weight:	50-70 kDa

### PROPERTIES

Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, 200mM L-arginine, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Plasmalemma Vesicle-Associated Protein (PLVAP) is a membrane protein exclusive to endothelial cells and is integral to the creation of diaphragms that bridge endothelial fenestrae. It plays a crucial role in the formation of stomata within caveolae and transendothelial channels. PLVAP is essential for regulating microvascular permeability, with endothelial fenestrae facilitating the controlled passage of water and solutes, thereby modulating transcellular versus paracellular flow in various organs. This protein's significance extends to embryonic development, where it performs a specific role. Structurally, PLVAP exists as a homodimer, emphasizing its importance in orchestrating complex endothelial functions (
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA