



## Product Datasheet

<b>Product Name</b>	Podoplanin Human Recombinant
<b>Cata No</b>	CB501483
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	Podoplanin, Glycoprotein 36, PA2.26 antigen, T1A, GP36, GP40, Gp38, OTS8, T1A2, HT1A-1, PA2.26, T1-alpha, PDPN.

### Description

Podoplanin is a small mucin-like type-1 transmembrane protein, typically expressed in various specialized cell types throughout the body. Podoplanin is a type-I integral membrane glycoprotein with diverse distribution in human tissues. PDPN physiological function is related to its mucin-type character. The homologous protein in other species has been described as a differentiation antigen and influenza-virus receptor. PDPN is expressed in lymphatic progenitor cells and afterwards during mouse development in lymphatic endothelial cells. Podoplanin is a specific marker for lymph vessel endothelial cells. Over-expression of podoplanin significantly elevates endothelial cell adhesion, migration, and tube formation. Inhibition of Podoplanin expression decreases cell adhesion in human dermal lymphatic endothelial cells. Podoplanin is used as a specific marker for lymphatic endothelium in histopathology. Podoplanin expression is increased in nearly all human colon, rectum, and small intestine tumors. AGGRUS may serve as a diagnostic marker that distinguishes seminomas, the majority of which over express the protein, from embryonal carcinoma in testicular germ cell tumors.

PDPN Human Recombinant fused to N-terminal His-Tag produced in E.Coli is a single, non-glycosylated polypeptide chain containing 130

amino acids and having a molecular mass of 13.4 kDa.

### Physical Appearance

Sterile Filtered colorless solution.

### Purity

Greater than 95.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

### Formulation

The protein solution contains 20mM Tris-HCl pH7.5 & 0.1M NaCl.

### Stability

Podoplanin although stable 4°C for 4 weeks, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

### Sequence

MGSSHHHHHHH SSGLVPRGSH MASTGQPEDD  
TETTGLEGGV AMPGAEDDVV TPGTSEDYRK  
SGLTTLVATS VNSVTGIRIE DLPTSESTVH  
AQEQSPSATA SNVATSHSTE KVDGDTQTTV  
EKDGLSTVTL.



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