
Product Data Sheet

Product Name: PDPN Human
 Cat. No.: GP24154
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Podoplanin; Glycoprotein 36; PA2.26 antigen; T1A; GP36; GP40; Gp38; OTS8; T1A2; HT1A-1; PA2.26; T1-alpha; PDPN.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MASTGQPEDD TETTGLEGGV AMPGAEDDVV TPGTSEDRYK SGLTTLVATS VNSVTGIRIE DLPTSESTVH AQEQSPSATA SNVATSHSTE KVDGDTQTTV EKDGLSTVTL.		
Formulation	The protein solution contains 20mM Tris-HCl pH7.5 & 0.1M NaCl.		

Introduction

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PDPN Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 130 amino acids (99-207 a.a) and having a molecular mass of 13.4kDa. PDPN is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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