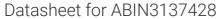
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# PODXL Protein (AA 22-404) (His tag)



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Quantity:	1 mg	
Target:	PODXL	
Protein Characteristics:	AA 22-404	
Origin:	Mouse	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This PODXL protein is labelled with His tag.	
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)	

#### **Product Details**

### Sequence:

HNGNETSTSA IKSSTVOSHO SATTSTEVTT GHPVASTLAS TOPSNPTPFT TSTOSPSMPT STPNPTSNQS GGNLTSSVSE VDKTKTSSPS STAFTSSSGQ TASSGGKSGD SFTTAPTTTL GLINVSSQPT DLNTTSKLLS TPTTDNTTSP QQPVDSSPST ASHPVGQHTP AAVPSSSGST PSTDNSTLTW KPTTHKPLGT SEATQPLTSQ TPGITTLPVS TLQQSMASTV GTTTEEFTHL ISNGTPVAPP GPSTPSPIWA FGNYQLNCEP PIRPDEELLI LNLTRASLCE RSPLDEKEKL VELLCHSVKA SFKPAEDLCT LHVAPILDNQ AVAVKRIIIE TKLSPKAVYE LLKDRWDDLT

EAGVSDMKLG KEGPPEVNED RFS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

#### Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- · Mouse Podxl Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

• State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

#### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.	
Sterility:	0.22 μm filtered	
Endotoxin Level:	Protein is endotoxin free.	
Grade:	Crystallography grade	

#### **Target Details**

Target:	PODXL
Alternative Name:	Podxl (PODXL Products)

## Target Details

ranger Betane		
Background:	Involved in the regulation of both adhesion and cell morphology and cancer progression.	
	Function as an anti-adhesive molecule that maintains an open filtration pathway between	
	neighboring foot processes in the podocyte by charge repulsion. Acts as a pro-adhesive	
	molecule, enhancing the adherence of cells to immobilized ligands, increasing the rate of	
	migration and cell-cell contacts in an integrin-dependent manner. Induces the formation of	
	apical actin-dependent microvilli. Involved in the formation of a preapical plasma membrane	
	subdomain to set up inital epithelial polarization and the apical lumen formation during renal	
	tubulogenesis. Plays a role in cancer development and aggressiveness by inducing cell	
	migration and invasion through its interaction with the actin-binding protein EZR. Affects EZR-	
	dependent signaling events, leading to increased activities of the MAPK and PI3K pathways in	
	cancer cells. {ECO:0000269 PubMed:11435469, ECO:0000269 PubMed:17311105}.	
Molecular Weight:	40.9 kDa Including tag.	
UniProt:	Q9R0M4	
Pathways:	Tube Formation	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies	
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee	
	though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the	
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher	
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible	
	options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	

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Expiry Date:

Unlimited (if stored properly)