

Datasheet for ABIN3094598

PITPNM1 Protein (AA 1-1244) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	PITPNM1
Protein Characteristics:	AA 1-1244
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PITPNM1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MLIKEYHILL PMSLDEYQVA QLYMIQKKS EESSGEGSGV EILANRPYTD GPGGSGQYTH KVYHVGSHIP GWFRALLPKA ALQVEEESWN AYPYTRTRYT CPFVEKFSIE IETYYLPDGG QQPNVFNLSG AERRQRILDT IDIVRDAVAP GEYKAEEDPR LYHSVKTGRG PLSDDWARTA AQTGPLMCAY KLCKVEFRYW GMQAKIEQFI HDVGLRRVML RAHRQAWCWQ DEWTELSMAD IRALEEETAR MLAQRMAKCN TGSEGSEAQP PGKPSTEARS AASNTGTPDG PEAPPGPDAS PDASFGKQWS SSSRSSYSSQ HGGAVSPQSL SEWRMQNIAR DSENSSEEEF FDAHEGFSDS EEVFPKEMTK WNSNDFIDAF ASPVEAEGTP EPGAEEAKGI EDGAQAPRDS EGLDGAGELG AEACAVHALF LILHSGNILD SGPGDANSKQ ADVQTLSSAF EAVTRIHFE ALGHVALRLV PCPPICAAAY ALVSNLSPYS HDGDSLRSRQ DHIPLAALPL LATSSSRYPG AVATVIARTN QAYSFLRSP EGAGFCGQVA LIGDGVGGIL GFDALCHSAN AGTGSRGSSR RGSMNNEELS PEFGPVRDPL ADGVEGLGRG SPEPSALPPQ RIPS DMASPE PEGSQNSLQA APATTSSWEP RRASTAFCPP AASSEAPDGP SSTARLDFKV SGFFLFGSPL GLVLALRKTV MPALEAAQMR
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PACEQIYNLF HAADPCASRL EPLLAPKFQA IAPLTVPRYQ KFPLGDGSSL LLADTLQTHS
SLFLEELEML VPSTPTSTSG AFWKGSELAT DPPAQPAAPS TTSEVVKILE RWWGTRIDY
SLYCPEALTA FPTVTPLHLF HASYWESADV VAFILRQVIE KERPQLAECE EPSIYSPAFP
REKWQRKRTQ VKIRNVTSNH RASDTVVCEG RPQVLSGRFM YGPLDVVTLT GEKVDVYIMT
QPLSGKWIHF GTEVTNSSGR LTFPVPPERA LGIGVYPVRM VVRGDHTYAE CCLTVVARGT
EAVVFSIDGS FTASVSIMGS DPKVRAGAVD VVRHWQDSGY LIVYVTGRPD MQKHRVVAWL
SQHNFPBGVV SFCDGLTHDP LRQKAMFLQS LVQEVELNIV AGYGSPKDVA VYAALGLSPS
QTYIVGRAVR KLQAQCQFLS DGYVAHLGQL EAGSHSHASS GPPRAALGKS SYGVAAPVDF
LRKQSQLRS RGPSQAEREG PGTPTTLAR GKARSISLKL DSEE

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Product Details

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	PITPNM1
Alternative Name:	PITPNM1 (PITPNM1 Products)
Background:	Membrane-associated phosphatidylinositol transfer protein 1 (Drosophila retinal degeneration B homolog) (Phosphatidylinositol transfer protein, membrane-associated 1) (PITPnm 1) (Pyk2 N-terminal domain-interacting receptor 2) (NIR-2),FUNCTION: Catalyzes the transfer of phosphatidylinositol (PI) between membranes (PubMed:22822086, PubMed:10531358). Binds PI, phosphatidylcholine (PC) and phosphatidic acid (PA) with the binding affinity order of PI > PA > PC (PubMed:22822086). Regulates RHOA activity, and plays a role in cytoskeleton remodeling (PubMed:11909959). Necessary for normal completion of cytokinesis (PubMed:15125835). Plays a role in maintaining normal diacylglycerol levels in the Golgi apparatus (PubMed:15723057). Necessary for maintaining the normal structure of the endoplasmic reticulum and the Golgi apparatus (PubMed:15545272). Required for protein export from the endoplasmic reticulum and the Golgi (PubMed:15723057). Binds calcium ions (PubMed:10022914). {ECO:0000269 PubMed:10022914, ECO:0000269 PubMed:10531358, ECO:0000269 PubMed:11909959, ECO:0000269 PubMed:15545272,

Target Details

ECO:0000269|PubMed:15723057, ECO:0000269|PubMed:22822086}.

Molecular Weight: 134.8 kDa

UniProt: [O00562](#)

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 guarantee though.

Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process