Datasheet for ABIN3131714

PITPNM1 Protein (AA 1-1243) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	PITPNM1
Protein Characteristics:	AA 1-1243
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PITPNM1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MLIKEYHILL PMSLDEYQVA QLYMIQKKSR EESSGEGSGV EILANRPYTD GPGGNGQYTH KVYHVGSHIP GWFRALLPKA ALQVEEESWN AYPYTRTRYT CPFVEKFSIE IETYYLPDGG QQPNVFNLSG AERRQRIVDT IDIVRDAVAP GEYKAEEDPR LYRSAKTGRG PLADDWARTA AQTGPLMCAY KLCKVEFRYW GMQAKIEQFI HDVGLRRVML RAHRQAWCWQ DEWIELSMAD IRALEEETAR MLAQRMAKCN TGSEGPEAQT PGKSSTEARP GTSTAGTPDG PEAPPGPDAS PDASFGKQWS SSSRSSYSSQ HGGGVSPQSL SEWRMQNIAR DSENSSEEEF FDAHEGFSDS DEVFPKEMTK WNSNDFIDAF ASPTEVEGVP DPTVMATKGI EDGARAPRDS EGLDGAGDLV VEACSVHALF LILHSGSILD SGPGDTNSKQ ADVQTLSTAF EAVTRVHFPE ALGHVALRLV PCPPICAAAY ALVSNLSPYS HDGDSLSRSQ DHIPLAALPL LATSSSRYQG AVATVIARTN QAYAAFLRSS EGTGFCGQVV LIGDGVGGIL GFDALCHSAS AGPGSRGSSR RGSMNNEMLS PEVGPVRDPL ADGVEVLGRA SPEPSALPAQ RTFSDMANPD PDGSQNSLQV ASTATSSGEP

RRASTASCPP ASSEAPDGPT NAARLDFKVS GFFLFGSPLG LVLALRKTVM PALEVAQLRP ACEQIYNLFH AADPCASRLE PLLAPKFQAI APLAVPRYQK FPLGDGSSLL LADTLQTHSS LFLEELEMMV PSTPTSASGA FWKGSELGNE PASQTAAPST TSEVVKILDR WWGNKRIDYS LYCPEALTAF PTVTLPHLFH ASYWESADVV AFILRQVIEK ERPQLTECEE PSIYSPAFPR EKWQRKRTQV KIRNVTSNHR ASDTVVCEGR PQVLNGRFMY GPLDVVTLTG EKVDVYVMTQ PLSGKWIHFG TEVTNSSGRL TFPVPSERAL GIGVYPVRMV VRGDHTYAEC CLTVVSRGTE AVVFSIDGSF TASVSIMGSD PKVRAGAVDV VRHWQDSGYL IVYVTGRPDM QKHRVVAWLS QHNFPHGVVS FCDGLTHDPL RQKAMFLQSL VQEVELNIVA GYGSPKDVAV YAALGLSPSQ TYIVGRAVRK LQAQCQFLSD GYVAHLGQLE AGSHSHAPSG PPRAALAKSS YAVAAPVDFL RKQSQLLRSR GPSQVDREGP GTPPTTLARG KTRSISLKLD SEE

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	PITPNM1
Alternative Name:	Pitpnm1 (PITPNM1 Products)
Background:	Membrane-associated phosphatidylinositol transfer protein 1 (Drosophila retinal degeneration B homolog 1) (RdgB1) (Mpt-1) (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 (By similarity). Binds PI (PubMed:10400687). Also binds phosphatidylcholine (PC) and phosphatidic acid (PA) with the binding affinity order of PI > PA > PC (By similarity). Regulates RHOA activity, and plays a role in cytoskeleton remodeling (By similarity). Necessary for normal completion of cytokinesis (By similarity). Plays a role in maintaining normal diacylglycerol levels in the Golgi apparatus (By similarity). Necessary for maintaining the normal structure of the endoplasmic reticulum and the Golgi apparatus (By similarity). Required for protein export from the endoplasmic reticulum and the Golgi (By similarity). Binds calcium ions (By similarity). {ECO:0000250|UniProtKB:O00562, ECO:0000269|PubMed:10400687}.
Molecular Weight:	134.9 kDa
UniProt:	O35954

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

Application Details

	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months