

Datasheet for ABIN3125072 NIPAL1 Protein (AA 1-416) (Strep Tag)



Go to Product page

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Quantity:	250 μg
Target:	NIPAL1
Protein Characteristics:	AA 1-416
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NIPAL1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details	
Brand:	AliCE®
Sequence:	MGVQLRLPPG EPCHEGYVLS LVCSNSSRAS CEITNVSESL PYPVVYTNLN SSKTNFSISA
	SVENKYNLYV GLVLAISSSV FIGSSFILKK KGLLQLADKG ITRAGQGGHS YLKEWLWWAG
	LLSMGAGEAA NFAAYAFAPA TLVTPLGALS VLISAILSSY FLNERLNIHG KIGCILSVLG
	STVMVIHAPQ EGEVTSLHEM EMKLRDPGFV SFAVIISVIS LVLILIVAPK KGQTNILVYI AICSLIGAFS
	VSSVKGLGIA IKELLERKPV YKDPLFFILL TMLALSVTTQ INYLNKALDT FNTSLVTPIY
	YVFFTSMVVT CSAILFQEWY GMKAGDIIGT LSGFFTIING IFLLHAFKNT NITWSELMST
	AKKEALSPNG NQNSYVLLEN ADFSASGYDD DITLFSRTND QSSHKL
	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 posttranslational 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!

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:	NIPAL1

Target Details

Alternative Name:	Nipal1 (NIPAL1 Products)	
Background: Molecular Weight:	Magnesium transporter NIPA3 (NIPA-like protein 1) (Non-imprinted in Prader-Willi/Angelman syndrome region protein 3 homolog),FUNCTION: Acts as a Mg(2+) transporter (PubMed:18667602). Can also transport other divalent cations such as Fe(2+), Sr(2+), Ba(2+), Mn(2+), Cu(2+) and Co(2+) but to a much less extent than Mg(2+) (PubMed:18667602). Shown to promote insulin content and secretion in Min6-K8 cells, particularly under conditions of hypomagnesemia (PubMed:32439805). {ECO:0000269 PubMed:18667602, ECO:0000269 PubMed:32439805}.	
UniProt:	Q8BMW7	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studie 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 product 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.	

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months