

Datasheet for ABIN3134983

PNPLA6 Protein (AA 1-1355) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	PNPLA6
Protein Characteristics:	AA 1-1355
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PNPLA6 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MGTPSHELNT TSSGAEVIQK TLEEGLGRR I CVAQPVFPV QVLGVMIGAG VAVLVTAVLI</p> <p>LLVVRRLRVQ KTPAPEGPRY RFRKRDKVL F YGRKIMRKVS QSTSSLVDTS VSTTSRPRMK</p> <p>KKLKMLNIAK KILRIKETP TLQRKEPPPS VLEADLTEGD LANSHLPSEV LYMLKNVRVL</p> <p>GHFEKPLFLE LCRHVMVFQRL GQG DYVFRPG QPDASIYVVQ DGLLELCLPG PDGKECVVKE</p> <p>VVPGDSVNSL LSILDVITGH QHPQRTVSAR AARDSTVLRL PVEAFSAVFT KYPESLVRVV</p> <p>QIIMVRLQRV TFLALHNYLG LTNELFSHEI QPLRLFPSPG LPTRTSPVRG SKRVVSTSGT</p> <p>EDTSKETSGR PLDSIGAPLP GPAGDPVKPT SLEAPPAPLL SRCISMPVDI SGLQGGPRSD</p> <p>FDMAYERGRI SVSLQEEASG GPQTASPREL REQ PAGACEY SYCEDESATG GCPFGPYQGR</p> <p>QTSSIFEAAK RELAKLMRIE DPSLLNSRVL LHHAKAGTII ARQGDQDVSL HFVLWGC LHV</p> <p>YQRMIDK AEE VCLFVAQPG E LVGQLAVLTG EPLIFTLRAQ RDCTFLRISK SHFYEIMRAQ</p> <p>PSVVL SAAHT VAARMSPFVR QMDFAIDWTA VEAGRALYRQ GDRSDCTYIV LNGRLRSVIQ</p>

RGSGKKELVG EYGRGDLIGV VEALTRQPR TTVHAVRDTE LAKLPEGTLG HIKRRYPQVV
TRLIHLLSQK ILGNLQQLQG PFPGLSLVSP QHSELTNPAS NLSTVAILPV CAEVPMMFT
LELQHALQAI GPTLLLNSDV IRALLGASAL DSIQEFRLSG WLAQQEDADR IVLYQTDTS
TPWTVRCLRQ ADCILIVGLG DQPTVGLQLE QMLENTAVRA LKQLVLLHRE EGPPTRTVE
WLNMRWSCSG HLHLRCPRL FSRRSPAKLH ELYEKVFSRR ADRHSDFSRL ARVLTGNTIA
LVLGGGGARG CSHIGVLKAL EEAGVPVDLV GGTSIGSFIG ALYAEERSAS RTKQRAREWA
KSMTSVLEPV LDLTYPVTSM FTGSAFNRSI HRVFQDKQIE DLWLPYFNVT TDITASAMRV
HKDGLWRYV RASMTLSGYL PPLCDPKDGH LLMDGGYINN LPADIARSMG AKTVIAIDVG
SQDETDLSTY GDSLGSWWLL WKRLNPWADK VKVPDMAEQ SRLAYVSCVR QLEVVKSSSY
CEYLRSIDC FKTMDFGKFD QIYDVGYQYG KAVFGGWTRG EVIEKMLTDR RSTDNLNERR
ADILAFPSSG FTDLAEIVSR IEPPTSIVSD GCADGEESDC LTEYEEDAGP DCSRDEGGSP
EGASPSTASE VEEKSTLRQ RRFLPQETPS SVADA

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

Product Details

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:	PNPLA6
Alternative Name:	Pnpla6 (PNPLA6 Products)
Background:	Patatin-like phospholipase domain-containing protein 6 (Neuropathy target esterase) (EC 3.1.1.5),FUNCTION: Phospholipase B that deacylates intracellular phosphatidylcholine (PtdCho), generating glycerophosphocholine (GroPtdCho) (PubMed:18086666) (Probable). This deacylation occurs at both sn-2 and sn-1 positions of PtdCho. Catalyzes the hydrolysis of several naturally occurring membrane-associated lipids. Hydrolyzes lysophospholipids and monoacylglycerols, preferring the 1-acyl to the 2-acyl isomer. Does not catalyze hydrolysis of di- or triacylglycerols or fatty acid amides (By similarity). {ECO:0000250 UniProtKB:Q8IY17, ECO:0000269 PubMed:18086666, ECO:0000305 PubMed:16963094}.
Molecular Weight:	149.5 kDa
UniProt:	Q3TRM4
Pathways:	Ribonucleoside Biosynthetic Process

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.
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Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months