Datasheet for ABIN3136225

NPAT Protein (AA 1-1420) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	NPAT
Protein Characteristics:	AA 1-1420
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPAT protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MLLPSDVARL VLGYLQQENL TSTCQTFILE SSNLKEYAEH CTDEGFIPAC LLSLFGKNLT TILNEYVAMK AKETSNDVPT IMSSLWKKLD HTLSQIRSMH SSPGFAAHQR ARTRNGIAEI KRQRWLASQA APVSSELLVL PYASGQFTTS PLVATQAVKP TGPISTPVRS NIVVVNQSQP QSTVTNTAGE SLNIIPGPQE RKTQTSLMSP GRRKSESQKK SLTSSGPHSS RNFQDPNAFA VEKQMVIENA REKILSNKSL QEKLAENINK FLTSDSSVAQ VPKQTDSNPT EPETSIDELL GLPSEIHMSE EAIQDILEQT ESDPAFQALF DLFDYGKTKN NKNMPQISSQ PMETNSNIVL PEETNLTIKS SFETEESDGQ SGQPPFCTSY QNEDVLLNDL KSGNSHDVLP QESQENFSQI SSNIQKKTFK TAIPAEQKCA LDITLESVSN LSDFNQRGSS AECNEHCSEL FASQIPTEAE VAVGEKNSLS ADILSQSQYQ PDQPSVPVTS FVSLGGETND KNLVLSGKNS QLLSQSTPLT TKPSKSQLCE NSNNIIKVKT NPQASESADS SETANRKTET NTVSPAAAQP QADCQDNSPL QSKPPPGIGE SLGVNVTEKI EIHLEEPAPS DKQLSNDAAS VDLNPTESKT EPLQSASAQE

PEPPSVKDGD TIFLSLSEHN SCEEVALVLG EGNPVKNNNS LSSESGGSVG VSPETQNTDG KTSNSTEVDA SSIVSLKIII SDDPFVSSDA ELNSAVSSIS GENLPTIILS SKSPAKNAEF VTCLSSEETA SAVVSVEVGD SGSMEQNLLV LKPEEPMVNN TQNEDGIAFS ANVAPCVPKD GGYIQLMPTT STAFGNSSNI LIATCMTDST ALGPTVSQSN VVVLPGSSAP MTAQPPQQQL QTPPKSNSAF AVSQAVSPNF SQGSAIIIAS PVQPVLQGMV GMIPVSVVGQ NGNTFSTPPQ QVLHMPLAAP VCNRSIAQLP IPQKSQKAQG LRNKLITGKQ VNNLTNLSSL SEACHTQRTE ASDKNIATEL GKKMEDTTIS LSGERVAPPS KPFESHRRVL CFDSTVSSVA NTQGSLYKMT SENKEKKEAS FSHLDSPILS STLKPPPNNA IKREREKTVP KILSKSETAS SRHTTVKEVQ SEKKVSPTEV ALESLHKATA NKENELCGDG ERPKNADTSK LPGGQQNGSL RNEKAIASLQ ELTKKQATPS NNKNATSVGG TVKDQKQEQS KPASSLIGAE ILQDVPIHSP ANRSADTDLP VPRTPGSGAG EKHKEEPSDS MKAPASRRCG EEGSMPRVMI PPVTADLPAC SPASETGSEN SVSMAAHTLM ILSRAAIART TATPLKDNTQ QFRTSSRSTT KKRKIEELDE CERNSRTSGK NLANSSVPMK KKKIKKKKLP SSFPAGMDVD KFLLSLHYDE

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

Product Details

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:	NPAT
Alternative Name:	Npat (NPAT Products)
Background:	Protein NPAT,FUNCTION: Required for progression through the G1 and S phases of the cell cycle and for S phase entry. Activates transcription of the histone H2A, histone H2B, histone H3 and histone H4 genes in conjunction with MIZF. Also positively regulates the ATM, MIZF and PRKDC promoters. Transcriptional activation may be accomplished at least in part by the recruitment of the NuA4 histone acetyltransferase (HAT) complex to target gene promoters (By similarity). Required for early embryonic development. {ECO:0000250, ECO:0000269|PubMed:9199343}.
Molecular Weight:	152.2 kDa
UniProt:	Q8BMA5

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.

Application Details

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