

Datasheet for ABIN3136225

NPAT Protein (AA 1-1420) (Strep Tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	NPAT
Protein Characteristics:	AA 1-1420
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPAT protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MLLPSDVARL VLGYLQQENL TSTCQTFILE SSNLKEYAEH CTDEGFIPAC LLSLFGKNLT
TILNEYVAMK AKETSNDVPT IMSSLWKKLD HTLSQIRSMH SSPGFAAHQR ARTRNGIAEI
KRQRWLASQA APVSELLVL PYASGQFTTS PLVATQAVKP TGPISTPVRS NIVVVNQSQP
QSTVTNTAGE SLNIIPGPQE RKTQTS LMSP GRRKSESQKK SLTSSGPHSS RNFQDPNAFA
VEKQMVIANA REKILSNKSL QEKLAENINK FLTSDSSVAQ VPKQTD SNPT EPETSIDELL
GLPSEIHMSE EAIQDILEQT ESDPAFQALF DLFDYGKTKN NKNMPQISSQ PMETNSNIVL
PEETNLTIKS SFETEESDGQ SGQPPFCTSY QNEDVLLNDL KSGNSHDVLP QESQENFSQI
SSNIQKTKFK TAIPAEQKCA LDITLESVSN LSDFNQRGSS AECNEHCSEL FASQIPTEAE
VAVGEKNLSL ADILSQSQYQ PDQPSVPVTS FVSLGGETND KNLVLSGKNS QLLSQSTPLT
TKPSKSQLCE NSNNIIKVKT NPQASESADS SETANRKTET NTVSPAAAQP QADCQDNSPL
QSKPPPGIGE SLGVNVTEKI EIHLEEPAPS DKQLSNDAAS VDLNPTESKT EPLQSASAAQE
PEPPSVKDGD TIFLSLSEHN SC EEVALVLG EGNPVKNNNS LSSESGGSVG VSPETQNTDG

KTSNSTEVDA SSIIVSLKIII SDDPFVSSDA ELNSAVSSIS GENLPTIILS SKSPAKNAEF VTCLSSEETA
SAVVSVEVGD SGSMEQNLLV LKPEEPMVNN TQNEGDIAFS ANVAPCVPKD GGYIQLMPTT
STAFGNSSNI LIATCMTDST ALGPTVSQSN VVVLPGSSAP MTAQPPQQQL QTPPKSNSAF
AVSQAVSPNF SQGSIIIAS PVQPVLQGMV GMIPVSVVGQ NGNTFSTPPQ QVLHMPLAAP
VCNRSIAQLP IPQKSQKAQG LRNKLITGKQ VNNLTNLSSL SEACHTQRTE ASDKNIATEL
GKKMEDTTIS LSGERVAPPS KPFESHRRVL CFDSTVSSVA NTQGSLYKMT SENKEKKEAS
FSHLDSPILS STLKPPPNA IKREREKTVP KILSKSETAS SRHTTVKEVQ SEKKVSPTEV
ALESCHKATA NKENELCGDG ERPKNADTSK LPGGQQNGSL RNEKAIASLQ ELTKKQATPS
NNKNATSVGG TVKDQKQEQS KPASSLIGAE ILQDVPIHSP ANRSADTDLP VPRTPGSGAG
EKHKEEPSDS MKAPASRRCG EEGSMPRVMI PPVTADLPAC SPASETGSEN SVSMAAHTLM
ILSRAAIART TATPLKDNTQ QFRTSSRSTT KKRKIEELDE CERNRSTSGK 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 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: > 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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.

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

Application Details

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)