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Datasheet for ABIN3136225  
**NPAT Protein (AA 1-1420) (His tag)**

1 Image

Overview

Quantity:	1 mg
Target:	NPAT
Protein Characteristics:	AA 1-1420
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPAT protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MLLPSDVARL VLGYLQQENL TSTCQTFILE SSNLKEYAEH CTDEGFIPAC LLSLFGKNLT  
 TILNEYVAMK AKETSNDVPT IMSSLWKKLD HTLSQIRSMH SSPGFAAHQR ARTRNGIAEI  
 KRQRWLASQA APVSSELLVL PYASGQFTTS PLVATQAVKP TGPISTPVRS NIVVVNQSQP  
 QSTVTNTAGE SLNIIPGPQE RKTQTS LMSP GRRKSESQKK SLTSSGPHSS RNFQDPNAFA  
 VEKQMVIENA REKILSNKSL QEKLAENINK FLTSDSSVAQ VPKQTD SNPT EPETSIDELL  
 GLPSEIHMSE EAIQDILEQT ESDPAFQALF DLFDYGKTKN NKNMPQISSQ PMETNSNIVL  
 PEETNLTIKS SFETEESDQ SGQPPFCTSY QNEDVLLNDL KSGNSHDVLP QESQENFSQI  
 SSNIQKTKFK TAIPAEQKCA LDITLESVSN LSDFNQRGSS AECNEHCSEL FASQIPTEAE  
 VAVGEKNSLS ADILSQSQYQ PDQSPVPVTS FVSLGGETND KNLVLSGKNS QLLSQSTPLT  
 TKPSKSQLCE NSNNIIKVKT NPQASESADS SETANRKTET NTVSPAAAQ P QADCQDNSPL  
 QSKPPPGIGE SLGVNVTEKI EIHLEEPAPS DKQLSNDAA S VDLNPTESKT EPLQSASAAQE  
 PEPPSVKDGD TIFLSLSEHN SC EEVALVLG EGNPVKNNNS LSSSEGGSVG 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  
ALESLHKATA 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. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Npat Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

## Product Details

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Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

## Target Details

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Target:	NPAT
Alternative Name:	Npat ( <a href="#">NPAT Products</a> )
Background:	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:	153.1 kDa Including tag.
UniProt:	<a href="#">Q8BMA5</a>

## Application Details

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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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process