Datasheet for ABIN3094205

NPAT Protein (AA 1-1427) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	NPAT
Protein Characteristics:	AA 1-1427
Origin:	Human
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 ISTCQTFILE SSDLKEYAEH CTDEGFIPAC LLSLFGKNLT TILNEYVAMK TKETSNNVPA IMSSLWKKLD HTLSQIRSMQ SSPRFAGSQR ARTRTGIAEI KRQRKLASQT APASAELLTL PYLSGQFTTP PSTGTQVTRP SGQISDPSRS YFVVVNHSQS QDTVTTGEAL NVIPGAQEKK AHASLMSPGR RKSESQRKST TLSGPHSTIR NFQDPNAFAV EKQMVIENAR EKILSNKSLQ EKLAENINKF LTSDNNIAQV PKQTDNNPTE PETSIDEFLG LPSEIHMSEE AIQDILEQTE SDPAFQALFD LFDYGKTKNN KNISQSISSQ PMESNPSIVL ADETNLAVKG SFETEESDGQ SGQPAFCTSY QNDDPLNALK NSNNHDVLRQ EDQENFSQIS TSIQKKAFKT AVPTEQKCDI DITFESVPNL NDFNQRGNSN AECNPHCAEL YTNQMSTETE MAIGIEKNSL SSNVPSESQL QPDQPDIPIT SFVSLGCEAN NENLILSGKS SQLLSQDTSL TGKPSKKSQF CENSNDTVKL KINFHGSKSS DSSEVHKSKI EINVLEPVMS QLSNCQDNSC LQSEILPVSV ESSHLNVSGQ VEIHLGDSLS STKQPSNDSA SVELNHTENE AQASKSENSQ

EPSSSVKEEN TIFLSLGGNA NCEKVALTPP EGTPVENSHS LPPESVCSSV GDSHPESQNT DDKPSSNNSA EIDASNIVSL KVIISDDPFV SSDTELTSAV SSINGENLPT IILSSPTKSP TKNAELVKCL SSEETVGAVV YAEVGDSASM EQSLLTFKSE DSAVNNTQNE DGIAFSANVT PCVSKDGGYI QLMPATSTAF GNSNNILIAT CVTDPTALGT SVSQSNVVVL PGNSAPMTAQ PLPPQLQTPP RSNSVFAVNQ AVSPNFSQGS AIIIASPVQP VLQGMVGMIP VSVVGQNGNN FSTPPRQVLH MPLTAPVCNR SIPQFPVPPK SQKAQGLRNK PCIGKQVNNL VDSSGHSVGC HAQKTEVSDK SIATDLGKKS EETTVPFPEE SIVPAAKPCH RRVLCFDSTT APVANTQGPN HKMVSQNKER NAVSFPNLDS PNVSSTLKPP SNNAIKREKE KPPLPKILSK SESAISRHTT IRETQSEKKV SPTEIVLESF HKATANKENE LCSDVERQKN PENSKLSIGQ QNGGLRSEKS IASLQEMTKK QGTSSNNKNV LSVGTAVKDL KQEQTKSASS LITTEMLQDI QRHSSVSRLA DSSDLPVPRT PGSGAGEKHK EEPIDIIKAP SSRRFSEDSS TSKVMVPPVT PDLPACSPAS ETGSENSVNM AAHTLMILSR AAISRTTSAT PLKDNTQQFR ASSRSTTKKR KIEELDERER NSRPSSKNLT NSSIPMKKKK IKKKKLPSSF PAGMDVDKFL LSLHYDE

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 (Nuclear protein of the ataxia telangiectasia mutated locus) (Nuclear protein of the ATM locus) (p220),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. {ECO:0000269|PubMed:10995386, ECO:0000269|PubMed:10995387, ECO:0000269|PubMed:12665581, ECO:0000269|PubMed:12724424, ECO:0000269|PubMed:14585971, ECO:0000269|PubMed:14612403, ECO:0000269|PubMed:15555599, ECO:0000269|PubMed:15988025, ECO:0000269|PubMed:16131487, ECO:0000269|PubMed:17163457, ECO:0000269|PubMed:17826007, ECO:0000269|PubMed:17967892, ECO:0000269|PubMed:17974976, ECO:0000269|PubMed:9472014}.
Molecular Weight:	154.3 kDa
UniProt:	Q14207

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 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