Datasheet for ABIN3137363

NAIP Protein (AA 1-1403) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	NAIP
Protein Characteristics:	AA 1-1403
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NAIP protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:	MAEHGESSED RISEIDYEFL PELSALLGVD AVQLAKSQEE EEHKERMKMK KGFNSQMRSE AKRLKTFETY DTFRSWTPQE MAAAGFYHTG VKLGVQCFCC SLILFGNSLR KLPIERHKKL RPECEFLQGK DVGNIGKYDI RVKSPEKMLR GGKARYHEEE ARLESFEDWP FYAHGTSPRV LSAAGFVFTG KRDTVQCFSC GGSLGNWEEG DDPWKEHAKW FPKCEFLQSK KSSEEIAQYI QGYEGFVHVT GEHFVNSWVR RELPMVSAYC NDSVFANEEL RMDTFKDWPH ESPVAVDALV RAGLFYTGKK GIVQCFSCGG CMEKCTEGDD PIQEHNKFFP NCVFLQTPKS SAEVIPALQS HCALPEAMET TSESNHDDPA AVHSTVVGLG RSEAQWFQEA RSLSEQLRDN YTKATFRHMN LPEVCSSLGT DHLIGCDVSI ISKHISQPVQ GALTIPEVFS NLSSVMCVEG ETGSGKTTFL KRIAFLWASG CCPLLYRFQL VFYLSLSSIT PDQGLANIIC AQLLGAGGCI SEVCLSSIIQ QLQHQVLFLL DDYSGLASLP QALHTLITKN YLSRTCLLIA VHTNRVRGIR SYLDTSLEIK EFPLSNTVYI LKKFFSHNIK RLLEFMVYFG QNEDLQGIHK TPLFVAAVCT DWFENPSDQP FQDMALFKSY MQYLSLKHKG AAKPLQATVS SCGQLALTGL FSSCFEFNSD DLAEAGVDED

EELTTCLMSK FTAQRLRPVY RFLGPLFQEF LAAMRLTELL SSDRQEDQDL GLYYLRQINS PLKALTTYNN FLKYVFSHPS SKAGPTVVSH LLHLVDETEL LENTYKNEDY VNHPPGTSRI MKGLKELWLL SPEYYSSFVS EHLLRIALNF AYESNTVAEC SPFILQFLRG RTLALKVLNL QYFRDHPESL LLVKSLEVSI NGNKVPKVVD YSVMEKSFET LQPPTIDQDY ASAFEQMKEH EKNLSENEET IKSIKNIFPL QPPKISSGYW KLSPKPCKIP RLEVGVTNMG PADQALLQVL MEVFSASQSI EFRLSDSSGF LESIRPALEL SKASVTKCSM SRLELSRAEQ ELLLTLPALQ SLEVSETNQL PDQLFHNLHK FLGLKELCVR LDGKPDVLSV LPGEFPNLLH MEKLSIRTSM ESDLSKLVKL IQNSPNLHVF HLKCDFLSNC DSLMAVLASC KKLREIEFSG RCFEAMPFVN ILPNFISLKI LNLISQQFPD KETSEKFAQA LGSLRNLEEL LVPTGDGIHQ VAKLIVRQCL QLPCLRVLAF HYILDNDSVI EIARVATSGG FQKLEKLDLS MNHKITEEGY RNFFQALDNL PNLQNLNICR HIPECIQVQA TTVKALGQCV SRLPSLTRLH MLSWLLDEED MKVINDVKER HPQSKRLIIF WKWIVPFSPV VLE

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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

Product Details

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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 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.
Purity:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	NAIP
Alternative Name:	Naip1 (NAIP Products)
Background:	Baculoviral IAP repeat-containing protein 1a (Neuronal apoptosis inhibitory protein 1),FUNCTION: Anti-apoptotic protein which acts by inhibiting the activities of CASP3, CASP7 and CASP9. Can inhibit the autocleavage of pro-CASP9 and cleavage of pro-CASP3 by CASP9. Capable of inhibiting CASP9 autoproteolysis at 'Asp-315' and decreasing the rate of auto proteolysis at 'Asp-330'. Acts as a mediator of neuronal survival in pathological conditions. Prevents motor-neuron apoptosis induced by a variety of signals (By similarity). {ECO:0000250}.
Molecular Weight:	158.7 kDa
UniProt:	Q9QWK5
Pathways:	Apoptosis, Inflammasome

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. 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)