

Datasheet for ABIN3090059

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



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Overview

Quantity:	250 µg
Target:	NAIP
Protein Characteristics:	AA 1-1403
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NAIP protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MATQQKASDE RISQFDHLL PELSALLGLD AVQLAKELEE EEQKERAKMQ KGYNSQMRSE</p> <p>AKRLKTFVTY EPYSSWIPQE MAAAGFYFTG VKSGIQCFCC SLILFGAGLT RLPIEDHKRF</p> <p>HPDCGFLLNK DVGNIKYDI RVKNLKSRLR GGKMRYQEEE ARLASFRNWP FYVQGISPCV</p> <p>LSEAGFVFTG KQDTVQCFSC GGCLGNWEEG DDPWKEHAKW FPKCEFLRSK KSSEITQYI</p> <p>QSYKGFVDIT GEHFVNSWVQ RELPMASAYC NDSIFAYEEL RLDSFKDWPR ESAVGVAALA</p> <p>KAGLFYTGK DIVQCFCSCG CLEKWQEGDD PLDDHTRCFP NCPFLQNMKS SAEVTPDLQS</p> <p>RGELCELLET TSENLEDSI AVGPVPEMA QGEAQWFQEA KNLNEQLRAA YTSASFRHMS</p> <p>LLDISSDLAT DHLLGCDLSI ASKHISKPVQ EPLVLPEVFG NLNSVMCVEG EAGSGKTVLL</p> <p>KKIAFLWASG CCPLNRFQL VFYLSLSSTR PDEGLASIIC DQLEKEGSV TEMCVRNIIQ</p> <p>QLKNQVLFLL DDYKEICSIP QVIGKLIQKN HLSRTCLLIA VRTNRARDIR RYLETILEIK AFFFYNTVCI</p> <p>LRKLFSHNMT RLRKFMVYFG KNQSLQKIQK TPLFVAAICA HWFQYPFDPS FDDVAVFKSY</p>

MERLSLRNKA TAEILKATVS SCGELALKGF FSCCFEFNDD DLAEAGVDED EDLTMCLMSK
FTAQRLRPFY RFLSPAFQEF LAGMRLIELL DSDRQEHQDL GLYHLKQINS PMMTVSAYNN
FLNYVSSLPS TKAGPKIVSH LLHLVDNKES LENISENDY LKHQPEISLQ MQLLRGLWQI
CPQAYFSMVS EHLLVLALKT AYQSNTVAAC SPFVLQFLQG RTLTGALNL QYFFDHPESL
SLLRSIHFI RGNKTSPRAH FSVLETCTDK SQVPTIDQDY ASAFPMNEW ERNLAEKEDN
VKSMDMQRR ASPDLSTGYW KLSPKQYKIP CLEVDVNDID VVGQDMLEIL MTVFSASQRI
ELHLNHSRGF IESIRPALEL SKASVTKCSI SKLELSAAEQ ELLLTLPSE SLEVSGTIQS
QDQIFPNLDK FLCLKELSVD LEGNINVFSV IPEEFPNFHH MEKLLIQISA EYDPSKLVKL
IQNSPNLHVF HLKCNFFSDF GSLMTMLVSC KKLTEIKFSD SFFQAVPFVA SLPNFISLKI
LNLEGQQFPD EETSEKFAYI LGSLSNLEEL ILPTGDGIYR VAKLIQQCCQ QLHCLRVLSF
FKTLNDDSVV EIAKVAISGG FQKLENLKL INHKITEEGY RNFFQALDNM PNLQELDISR
HFTECIKAQA TTVKSLSQCV LRLPRLRLN MLSWLLDADD IALLNVMKER HPQSKYL TIL
QKWILPFSP I QK

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:	NAIP
Alternative Name:	NAIP (NAIP Products)
Background:	<p>Baculoviral IAP repeat-containing protein 1 (Neuronal apoptosis inhibitory protein),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. Possible role in the prevention of spinal muscular atrophy that seems to be caused by inappropriate persistence of motor-neuron apoptosis: mutated or deleted forms of NAIP have been found in individuals with severe spinal muscular atrophy., FUNCTION: Acts as a sensor component of the NLRC4 inflammasome that specifically recognizes and binds needle protein CprI from pathogenic bacteria C.violaceum. Association of pathogenic bacteria proteins drives in turn drive assembly and activation of the NLRC4 inflammasome, promoting caspase-1 activation, cytokine production and macrophage pyroptosis. The NLRC4 inflammasome is activated as part of the innate immune response to a range of intracellular bacteria such as C.violaceum and L.pneumophila.</p>
Molecular Weight:	159.6 kDa

Target Details

UniProt:	Q13075
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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months