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Datasheet for ABIN7552737

**NAIP Protein (AA 1-1403) (His tag)**

## Overview

Quantity:	1 mg
Target:	NAIP
Protein Characteristics:	AA 1-1403
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NAIP protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant NAIP Protein expressed in mammalian cells.
Sequence:	MATQQKASDE RISQFDHLL PELSALLGLD AVQLAKELEE EEQKERAKMQ KGYNSQMRSE AKRLKTFVTY EPYSSWIPQE MAAAGFYFTG VKSGIQCFCC SLILFGAGLT RLPIEDHKRF HPDCGFLLNK DVGNIKYDI RVKNLKSRLR GCKMRYQEEE ARLASFRNWP FYVQGISPCV LSEAGFVFTG KQDTVQCFSC GGCLGNWEEG DDPWKEHAKW FPKCEFLRSK KSSEEITQYI QSYKGFVDIT GEHFVNSWVQ RELPMASAYC NDSIFAYEEL RLDSFKDWPR ESAVGVAALA KAGLFYTGK DIVQCFSCGG CLEKWQEGDD PLDDHTRCFP NCPFLQNMKS SAEVTPDLQS RGELCELLET TSESNLEDSI AVGPVPEMA QGEAQWFQEA KNLNEQLRAA YTSASFRHMS LLDISSDLAT DHLLGCDLSI ASKHISKPVQ EPLVLPEVFG NLNSVMCVEG EAGSGKTVLL KKIAFLWASG CCPLNRFQL VFYLSLSSTR PDEGLASIIC DQLEKEGSV TEMCVRNIIQ QLKNQVLFLL DDYKEICSIP QVIGKLIQKN HLSRTCLLIA VRTNRARDIR RYLETILEIK AFPFYNTVCI LRKLFShnMT RLRKFMVYFG KNQSLQKIQK TPLFVAAICA HWFQYFPDPS FDDVAVFKSY 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 RGNKTSAPRAH FSVLETCFDK SQVPTIDQDY ASAFEMNEW ERNLAEKEDN  
VKSVMQRR ASPDLSTGYW KLSPKQYKIP CLEVDVNDID VVGQDMLEIL MTVFSASQRI  
ELHLNHSRGI IESIRPALEL SKASVTKCSI SKLELSAAEQ ELLLTLPSE SLEVSGTIQS  
QDQIFPNLDK FLCLKELSVD LEGNINVFSV IPEEFPNFHH MEKLLIQISA EYDPSKLVKL  
IQNSPNLHVF HLKCNFFSDF GSLMTMLVSC KKLTEIKFSD SFFQAVPFVA SLPNFISLKI  
LNLEGQQFPD EETSEKFAYI LGSLSNLEEL ILPTGDGIYR VAKLIIQQCQ QLHCLRVLFS  
FKTLNDDSVV EIAKVAISGG FQKLENLKLS INHKITEEGY RNFFQALDNM PNLQELDISR  
HFTECIKAQA TTVKSLSQCV LRLPRLRLN MLSWLLDADD IALLNVMKER HPQSKYLTIL  
QKWILPFSP I QK **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

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Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

## Target Details

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Target:	NAIP
Alternative Name:	<a href="#">NAIP (NAIP Products)</a>
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
UniProt:	<a href="#">Q13075</a>
Pathways:	<a href="#">Apoptosis, Inflammasome</a>

## Application Details

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Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

## Handling

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Expiry Date: 12 months