Datasheet for ABIN3137270

Naip6 Protein (AA 1-1403) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	Naip6 (NAIP7)
Protein Characteristics:	AA 1-1403
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Naip6 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MAEHGESSED RISEIDYEFL AELSARFGMN LVQLAKSQEE EDHKERMKMK KGFNSQMRSE AKRLKTFESY DTFRSWTPQE MAAAGFYHTG VKLGVQCFCC SLILFGNSLR KLPIERHKKL RPECEFLQGK DVGNIGKYDI RVKSPEKMLR GGKARYHEEE ARLESFEDWP FYAHGTSPRA LSAAGFVFTG KRDTVQCFSC GGSLGNWEEG DDPWKEHAKW FPKCEFLQSK KSSEEIAQYI QDYEGFVHVT GEHFVKSWVR RELPMVSAYC NDSVFTNEEL RMDMFKDWPQ ESPVGFEALV RAGFFYTGKK DIVRCFSCGG CLEKWAEGDD PMEDHIKFFP ECVFLQTLKS SAEVIPTLQS QYALPEATET TRESNHDDAA AVHSTVVDLG RSEAQWFQEA RSLSEQLRDT YTKTSFCHMN LPEVCSSLGT DHLLGCDVSI ISKHVSQPVQ GALTIPEVFS NLSSVMCVEG EAGSGKTTFL KRIAFLWASG CCPLLYRFQL VFYLSLSSIT PDQGLANIIC TQLLGAGGCI SEVCLSSSIQ QLQHQVLFLL DDYSGLASLP QALHTLITKN YLFRTCLLIA VHTNRVRDIR PYLGTSLEIQ EFPFYNTVFV LRKFFSHDII CVEKLIIYFS ENKDLQGVYK TPLFVAAVCN DWNQNASAQD DFQDVTLFHS YMQYLSLKYK ATAESLQATV SSCGQLALTG LFSSCFEFNS DDLAEAGVDE

DVKLTTFLMS KFTAQRLRPV YRFLGPLFQE FLAAVRLTEL LSSDRQEDQD LGLYYLRQID SPLKAINSFN IFLYYVSSHS SSKAAPTVVS HLLQLVDEKE SLENMSENED YMKLHPQTFL WFQFVRGLWL VSPESFSSFV SEHLLRLALI FAYESNTVAE CSPFILQFLR GRTLALRVLN LEYFWDHPES LLLLRSLKVS INGNKMSSYV DYSFKTYFEN LQPPAINEEY TSAFEHVSEW RRNFAQDEEI IKNYENIWPR ALPDISEGYW NLSPKPCKIP KLEVQVNNMG PADQALLQVL MEVFSASQSI EFHLFNSSGF LESIRPALEL SKASVTKCSM SRLELSRAEQ ELLLTLPALQ SLEVSETNQL PDQLFHNLHK FLGLKELCVR LDGKPDVLSV LPEEFLNLHH MEKLSIRTST ESDLSKLVKF IQNFPNLHVF HLKCDFLSNC ESLMTALASC KKLREIEFSG QCFEAMTFVN ILPNFVSLKI LSLKGQQFAD KETSEKFAQA LGSLRNLEEL LVPTGDGIHQ VAKLIVRQCL QLPCLRVLAF HDILDDESVI EIARAATSGS FQKLENLDIS MNHKITEEGY RNFFQALDNL PNLQMLNICR NIPGRIQVQA TTVKALGHCV SRLPSLTRLG MLSWLLDEED MKVINDVKER HPQSKRLTIF WKWIVPFSPV VLE

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 Naip6 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 receival 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

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 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. 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:	>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

Target:	Naip6 (NAIP7)
Alternative Name:	Naip6 (NAIP7 Products)
Background:	Sensor component of the NLRC4 inflammasome that specifically recognizes and binds flagellin from pathogenic bacteria. 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. The NLRC4 inflammasome senses Gram-negative bacteria such as L.pneumophila and P.aeruginosa, enteric pathogens S.typhimurium (Salmonella) and S.flexneri. Prevents motor-neuron apoptosis induced by a variety of signals. {ECO:0000269|PubMed:21874021}.
Molecular Weight:	160.8 kDa Including tag.
UniProt:	Q9JIB6

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 gurantee 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

Application Details

	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.
Restrictions:	For Research Use only

Handling

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

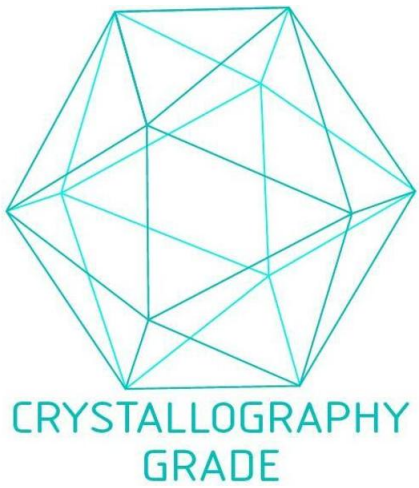

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process