



Datasheet for ABIN3137420

Naip5 Protein (AA 1-1403) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	Naip5 (NAIP5)
Protein Characteristics:	AA 1-1403
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Naip5 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MAEHGESSED RISEIDYEFL PELSALLGVD AFQVAKSQEE EEHKERMKMK KGFNSQMRSE
 AKRLKTFETY DFRSWTPQE MAAAGFYHTG VKLGVQCFCC SLILFGNSLR KLPIERHKKL
 RPECEFLQGK DVG NIGKYDI RVKSPEKMLR G GKARYHEEE ARLESFEDWP FYAHGTSPRV
 LSAAGFVFTG KRDTVQCFSC GGSLGNWEEG DDPWKEHAKW FPKCEFLQSK KSSEEIAQYI
 QSYEGFVHVT GEHFVKSWVR RELPMVSAYC NDSVFANEEL RMDMFKDWPQ ESPVGVEALV
 RAGFFYTGKK DIVRCFSCGG CLEKWAEGDD PMEDHIKFFP ECVFLQTLKS SAEVIPTLQS
 QYALPEATET TRESNHGDAA AVHSTVVDLG RSEAQWFQEA RSLSEQLRDN YTKATFRHMN
 LPEVCSSLGT DHLLSCDVS I SKHISQPVQ EALTIPEVFS NLNSVMCVEG ETGSGKTTFL
 KRIAFWASG CCPLLYRFQL VFYLSLSSIT PDQGLANIIC AQLLGAGGCI SEVCLSSSIQ
 QLQHQVLFLL DDYSGLASLP QALHTLITKN YLSRTCLLIA VHTNRRVDIR LYLGTSLEIQ
 EFPFYNTVSV LRKFFSHDII CVEKLIIFYI DNKDLQGVYK TPLFVAAVCT DWIQNASAQD
 KFQDVTLFQS YMQYLSLKYK ATAEPLQATV SSCGQLALTG LFSSCFEFNS DDLAEAGVDE

DEKLTLLMS KFTAQRLRPV YRFLGPLFQE FLAAVRLTEL LSSDRQEDQD LGLYYLRQID
SPLKAINSFN IFLYYVSSH SSKAAPT VVS HLLQLVDEKE SLENMSENE D YMKLHPQTFL
WFQFVRGLWL VSPSSSSSFV SEHLLRLALI FAYESNTVAE CSPFILQFLR GKTALRVLN
LQYFRDHPES LLLLRSLKVS INGNKMSSYV DYSFKTYFEN LQPPAIDEEY TSAFEHISEW
RRNFAQDEEI IKNYENIRPR ALPDISEGYW KLSPKPKIP KLEVQVNNTD AADQALLQVL
MEVFSASQSI EFRLFNSSGF LESICPALEL SKASVTKCSM SRLELSRAEQ ELLLTLPALQ
SLEVSETNQL PEQLFHNLHK FLGLKELCVR LDGKPDVLSV LPGEFNLHH MEKLSIRTST
ESDLSKLVKF IQNFPNLHVF HLCDFLSNC ESLMAVLASC KKLREIEFSG RCFEAMTFVN
ILPNFVSLKI LNLKDQQFPD KETSEKFAQA LGSLRNLEEL LVPTGDGIHQ VAKLIVRQCL
QLPCLRVLTF HDILDDDSVI EIARAATSGG FQKLENLDIS MNHKITEEGY RNFFQALDNL
PNLQELNICR NIPGRIQVQA TTVKALGQCV SRLPSLIRLH MLSWLLDEED MKVINDVKER
HPQSKRLIIF WKLIVPFSPV ILE

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 Naip5 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 receipt 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: <ol style="list-style-type: none">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:	Naip5 (NAIP5)
Alternative Name:	Naip5 (NAIP5 Products)
Background:	Sensor component of the NLRC4 inflammasome that specifically recognizes and binds flagellin from pathogenic bacteria such as Legionella or Salmonella. 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, ECO:0000269 PubMed:21918512}.
Molecular Weight:	160.6 kDa Including tag.
UniProt:	Q9R016

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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the

Application Details

recombinant protein with the default tag will be insoluble our protein lab may suggest a higher 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