

Datasheet for ABIN7565172
Naip5 Protein (AA 1-1403) (His tag)



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Overview

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| Quantity: | 1 mg |
| Target: | Naip5 (NAIP5) |
| Protein Characteristics: | AA 1-1403 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Naip5 protein is labelled with His tag. |

Product Details

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| Purpose: | Custom-made recombinant Naip5 Protein expressed in mammalian cells. |
| Sequence: | MAEHGESSED RISEIDYEFL PELSALLGVD AFQVAKSQEE EEHKERMKMK KGFNSQMRSE AKRLKTFETY DFRSWTPQE MAAAGFYHTG VRLGVQCFCC SLILFGNSLR KLPIERHKKL RPECEFLQ GK DVG NIGKYDI RVKRPEKMLR 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 DHLLSCD VSI ISKHISQPVQ EALTIPEVFS NLNSVMC VEG ETGSGKTTFL KRIAFLWASG CCPLLYRFQL VFYLSLSSIT PDQGLANIIC AQLLGAGGCI SEVCLSSSIQ QLQHQLVLL DDYSGLASLP QALHTLITKN YLSRTCLLIA VHTNRVRDIR 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 GKTLALRVLN
LQYFRDHPES LLLLRSLKVS INGNKMSSYV DYSFKTYFEN LQPPAIDEEY TSAFEHISEW
RRNFAQDEEI IKNYENIRPR ALPDISEGYW KLSPKPKIP KLEVQVNTD AADQALLQVL
MEVFSASQSI EFRLFNSSGF LESICPALEL SKASVTKCSM SRLELSRAEQ ELLLTLPALQ
SLEVSETNQL PEQLFHNLHK FLGLKELCVR LDGKPNVLSV LPREFPNLLH MEKLSIQTST
ESDLSKLVKF IQNFPNLHVF HLKCDFLSNC 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. 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.**

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.

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.

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

Grade: custom-made

Target Details

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| Target: | Naip5 (NAIP5) |
| Alternative Name: | Naip5 (NAIP5 Products) |
| Background: | <p>Baculoviral IAP repeat-containing protein 1e (Neuronal apoptosis inhibitory protein 5),FUNCTION: Sensor component of the NLRC4 inflammasome that specifically recognizes and binds flagellin from pathogenic bacteria such as Legionella or Salmonella (PubMed:12526741, PubMed:21874021, PubMed:21918512, PubMed:29146805, PubMed:29182158). 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 (PubMed:21874021, PubMed:21918512, PubMed:29146805, PubMed:29182158). 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 (PubMed:21874021, PubMed:21918512, PubMed:29146805, PubMed:29182158). May contribute to prevent motor-neuron apoptosis induced by a variety of signals (By similarity). {ECO:0000250 UniProtKB:Q13075, ECO:0000269 PubMed:12526741, ECO:0000269 PubMed:21874021, ECO:0000269 PubMed:21918512, ECO:0000269 PubMed:29146805, ECO:0000269 PubMed:29182158}.</p> |
| Molecular Weight: | 159.8 kDa |
| UniProt: | Q9R016 |

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

Expiry Date: 12 months