Datasheet for ABIN3137420

Naip5 Protein (AA 1-1403) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Naip5 (NAIP5)
Protein Characteristics:	AA 1-1403
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Naip5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAEHGESSED RISEIDYEFL PELSALLGVD AFQVAKSQEE EEHKERMKMK KGFNSQMRSE AKRLKTFETY DTFRSWTPQE MAAAGFYHTG VRLGVQCFCC SLILFGNSLR KLPIERHKKL RPECEFLQGK DVGNIGKYDI RVKRPEKMLR GGKARYHEEE 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 DHLLSCDVSI ISKHISQPVQ EALTIPEVFS NLNSVMCVEG ETGSGKTTFL KRIAFLWASG CCPLLYRFQL VFYLSLSSIT PDQGLANIIC AQLLGAGGCI SEVCLSSSIQ QLQHQVLFLL DDYSGLASLP QALHTLITKN YLSRTCLLIA VHTNRVRDIR LYLGTSLEIQ EFPFYNTVSV LRKFFSHDII CVEKLIIYFI DNKDLQGVYK TPLFVAAVCT DWIQNASAQD

KFQDVTLFQS YMQYLSLKYK ATAEPLQATV SSCGQLALTG LFSSCFEFNS DDLAEAGVDE DEKLTTLLMS KFTAQRLRPV YRFLGPLFQE FLAAVRLTEL LSSDRQEDQD LGLYYLRQID SPLKAINSFN IFLYYVSSHS SSKAAPTVVS HLLQLVDEKE SLENMSENED YMKLHPQTFL WFQFVRGLWL VSPESSSSFV SEHLLRLALI FAYESNTVAE CSPFILQFLR GKTLALRVLN LQYFRDHPES LLLLRSLKVS INGNKMSSYV DYSFKTYFEN LQPPAIDEEY TSAFEHISEW RRNFAQDEEI IKNYENIRPR ALPDISEGYW KLSPKPCKIP KLEVQVNNTD 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 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:	Naip5 (NAIP5)
Alternative Name:	Naip5
Background:	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}.

Target Details

Molecular Weight:	159.8 kDa
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:	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 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!
Restrictions:	For Research Use only

Handling

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