Datasheet for ABIN3137345

Naip2 Protein (AA 1-1447) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Naip2 (NAIP2)
Protein Characteristics:	AA 1-1447
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Naip2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAAQGEAVEE IICEFDDDLV SELSTLLRVD ALSVLKRQQE EDHKTRMKMK KGFNSQMRSE AKRLKTFETY DKFRSWTPQE MAAAGFYHTG VKLGVQCFCC SLILFSTRLR KLPIENHKKL RPECEFLLGK DVGNIGKYDI RVKSPEKMLR GDKARYHEEE ARLESFEDWP FYAHGTSPRV LSAAGFVFTG KRDTVQCFSC GGCLGNWEEG DDPWKEHAKW FPKCEFLQSK KSPEEITQYV QSYEGFLHVT GEHFVNSWVR RELPMVSAYC NDSVFANEEL RMDTFKDWPH ESPGAVEALV KAGLFYTGKR DIVQCFSCGG CMEKWAEGDN PIEDHTKFFP NCVFLQTLKS SAEVIPALQS HCALPEAMET TSESNHDDAA AVHSTVVDVS PSEAQELEPA SSLVSVLCRD QDHSEAQGRG CASSGTYLPS TDLGQSEAQW LQEARSLSEQ LRDTYTKATF RHMNLPEVYS SLGTDHLLSC DVSIISKHIS QPVQGSLTIP EVFSNLNSVM CVEGEAGSGK TTFLKRIAFL WASGCCPLLY RFQLVFYLSL SSITPGQELA KIICAQLLGA GGCISEVCLS SIIQQLQHQV LFLLDDYSGL ASLPQALHTL ITKNYLSRTC LLIAVHTNKV RGIRPYLDTS LEIKEFPFYN TVSVLRKLFS

HDIMRVRKFI NYFGFHEELQ GIHKTPLFVA AVCTDWFKNP SDQPFQDVAL FKAYMQYLSL KHKGAAKPLQ ATVSSCGQLA LTGLFSSCFE FNSDNLAEAG VDEDEELTTC LMSKFTAQRL RPVYRFLGPL FQEFLAAVRL TELLSSDRQE DQDLGLYYLR QINSPLKAMS IYHTFLKYVS SHPSSKAAPT VVSHLLQLVD EKESLENMSE NEDYMKLHPE ALLWIECLRG LWQLSPESFS LFISENLLRI CLNFAHESNT VAACSPVILQ FLRGRTLDLK VLSLQYFWDH PETLLLLKSI KISLNGNNWV QRIDFSLIEK SFEKVQPPTI DQDYAIAFQP INEVQKNLSE KKHIIKKYED MKHQIPLNIS TGYWKLSPKP YKIPKLEVQV TNTGPADQAL LQVLMEVFSA SQSIEFRLSD SSGFLESIRP ALELSKASVT KCSMSRLELS REDQKLLLTL PTLQSLEVSE TNQLPDQLFH NLHKFLGLKE LCVRLDSKPD VLSVLPGEFP NLHHMEKLSI RTSTESDLSK LVKLIQNSPN LHVFHLKCNF LSNCEPLMTV LASCKKLREI EFSGRCFEAM TFVNILPNFV FLKILNLRDQ QFPDKETSEK FAQALGSLRN LEKLFVPTGD GIHQVAKLIV RQCLQLPCLR VLVFAETLDD DSVLEIAKGA TRGGFQKLEN LDLTLNHKIT EEGYRNFFQV LDNLPNLKNL DISRHIPECI QIQAITVKAL GQCVSRLPSL TRLGMLSWLL DEEDIKVIND VKERHPQSKR LTVHWRWVVP FSPVIQK

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

Product Details

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!

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:	Naip2 (NAIP2)
Alternative Name:	Naip2
Background:	Baculoviral IAP repeat-containing protein 1b (Neuronal apoptosis inhibitory protein 2),FUNCTION: Sensor component of the NLRC4 inflammasome that specifically recognizes and binds type III secretion system (T3SS) rod proteins such as S.typhimurium (Salmonella) PrgJ and B.thailandensis BsaK 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, ECO:0000269|PubMed:21918512}.
Molecular Weight:	164.1 kDa
UniProt:	Q9QUK4

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