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Datasheet for ABIN3088428
AFAP Protein (AA 1-730) (Strep Tag)

Overview

Quantity:	1 mg
Target:	AFAP (AFAP1)
Protein Characteristics:	AA 1-730
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AFAP protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence: MEELIVELRL FLELLDHEYL TSTVREKKAV ITNILLRIQS SKGFDVKDHA QKQETANSLP
APPQMPLPEI PQPWLPPDSG PPPLPTSSLP EGYEEAVPL SPGKAPEYIT SNYSDAMSS
SYESYDEEEE DGKGGKTRHQ WPSEEASMDL VKDAKICAF L RKKRFGQWT KLLCVIKDTK
LLCYKSSKDQ QPMELPLQG CNITYIPKDS KKKKHELKIT QQGTDPLVLA VQSKEQAEQW
LKVIKEAYSG CSGPVDSECP PPPSSPVHKA ELEKKLSSER PSSDGEVVE NGITTCNGKE
QVKRKKSSKS EAKGTVSKVT GKKITKIISL GKKKPSTDEQ TSSAEDVPT CGYLVNLSNS
RWRERWCRVK DNKLIFHKDR TDLKTHIVSI PLRGCEVIPG LDSKHPLTFR LLRNGQEVAV
LEASSSEDMG RWIGILLAET GSSTDPEALH YDIDVEMSA SVIQTAKQTF CFMNRVISA
NPYLGGTSNG YAHPSGTALH YDDVPCINGS LKGKKPPVAS NGVTGKGKTL SSQPKKADPA
AVVKRTGSNA AQYKYGKNRV EADAKRLQTK EEELLKRKEA LRNRLAQLRK ERKDLRAAIE
VNAGRKPQAI LEEKLKQLEE ECRQKEAERV SLELELTVK ESLKKALAGG VTLGLAIEPK
SGTSSPQSPV FRHRTLENSP ISSCDTSDTE GPVPVNSAAV LKKSQAAPGS SPCRGHVLRK

AKEWELKNGT

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System

Product Details

(ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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: >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade: Crystallography grade

Target Details

Target: AFAP (AFAP1)

Alternative Name: AFAP1 ([AFAP1 Products](#))

Background: Actin filament-associated protein 1 (110 kDa actin filament-associated protein) (AFAP-110),FUNCTION: Can cross-link actin filaments into both network and bundle structures (By similarity). May modulate changes in actin filament integrity and induce lamellipodia formation. May function as an adapter molecule that links other proteins, such as SRC and PKC to the actin cytoskeleton. Seems to play a role in the development and progression of prostate adenocarcinoma by regulating cell-matrix adhesions and migration in the cancer cells. {ECO:0000250, ECO:0000269|PubMed:15485829}.

Molecular Weight: 80.7 kDa

UniProt: [Q8N556](#)

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

Application Details

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Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)