Datasheet for ABIN3095822

TGFBRAP1 Protein (AA 1-860) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TGFBRAP1
Protein Characteristics:	AA 1-860
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGFBRAP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MMSIKAFTLV SAVERELLMG DKERVNIECV ECCGRDLYVG TNDCFVYHFL LEERPVPAGP ATFTATKQLQ RHLGFKKPVN ELRAASALNR LLVLCDNSIS LVNMLNLEPV PSGARIKGAA TFALNENPVS GDPFCVEVCI ISVKRRTIQM FLVYEDRVQI VKEVSTAEQP LAVAVDGHFL CLALTTQYII HNYSTGVSQD LFPYCSEERP PIVKRIGRQE FLLAGPGGLG MFATVAGISQ RAPVHWSENV IGAAVSFPYV IALDDEFITV HSMLDQQQKQ TLPFKEGHIL QDFEGRVIVA TSKGVYILVP LPLEKQIQDL LASRRVEEAL VLAKGARRNI PKEKFQVMYR RILQQAGFIQ FAQLQFLEAK ELFRSGQLDV RELISLYPFL LPTSSSFTRS HPPLHEYADL NQLTQGDQEK MAKCKRFLMS YLNEVRSTEV ANGYKEDIDT ALLKLYAEAD HDSLLDLLVT ENFCLLTDSA AWLEKHKKYF ALGLLYHYNN QDAAAVQLWV NIVNGDVQDS TRSDLYEYIV DFLTYCLDEE LVWAYADWVL QKSEEVGVQV FTKRPLDEQQ KNSFNPDDII NCLKKYPKAL VKYLEHLVID KRLQKEEYHT HLAVLYLEEV LLQRASASGK GAEATETQAK LRRLLQKSDL YRVHFLLERL

QGAGLPMESA ILHGKLGEHE KALHILVHEL QDFAAAEDYC LWCSEGRDPP HRQQLFHTLL AIYLHAGPTA HELAVAAVDL LNRHATEFDA AQVLQMLPDT WSVQLLCPFL MGAMRDSIHA RRTMQVALGL ARSENLIYTY DKMKLKGSSI QLSDKKLCQI CQNPFCEPVF VRYPNGGLVH THCAASRHTN PSSSSPGTRT

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 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.

Product Details

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:	TGFBRAP1
Alternative Name:	TGFBRAP1 (TGFBRAP1 Products)
Background:	Transforming growth factor-beta receptor-associated protein 1 (TGF-beta receptor-associated protein 1) (TRAP-1) (TRAP1),FUNCTION: Plays a role in the TGF-beta/activin signaling pathway. It associates with inactive heteromeric TGF-beta and activin receptor complexes, mainly through the type II receptor, and is released upon activation of signaling. May recruit SMAD4 to the vicinity of the receptor complex and facilitate its interaction with receptor-regulated Smads, such as SMAD2. {ECO:0000269|PubMed:11278302, ECO:0000269|PubMed:9545258}., FUNCTION: Plays a role in vesicle-mediated protein trafficking of the endocytic membrane transport pathway. Believed to act as a component of the putative CORVET endosomal tethering complexes which is proposed to be involved in the Rab5-to-Rab7 endosome conversion probably implicating MON1A/B, and via binding SNAREs and SNARE complexes to mediate tethering and docking events during SNARE-mediated membrane fusion. The CORVET complex is proposed to function as a Rab5 effector to mediate early endosome fusion probably in specific endosome subpopulations (PubMed:25266290). Functions predominantly in APPL1-containing endosomes and in degradative but not recycling trafficking of endocytosed cargo (PubMed:25266290). {ECO:0000269|PubMed:25266290, ECO:0000305|PubMed:25266290}.
Molecular Weight:	97.2 kDa
UniProt:	Q8WUH2

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

Application Details

	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