

Datasheet for ABIN3135081

TGFBRAP1 Protein (AA 1-860) (His tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	TGFBRAP1
Protein Characteristics:	AA 1-860
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGFBRAP1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	MMNIKAFTLV SAVERELLMG DRDHISIECV ECCGRNLYVG TNDCFIYHFL LEEKAMPTGT ATFVATKQLH RHLGFKKPVN ELCAASALNR LLVLCDNSIT LVNMLNLEPV PSGARIKGAT TFAVNESPVN GDPFCVEVCI ISVKRRTVQM FLVYEDRVQI VKEVSTPEQP LAVAVDGYFL CLALTTQYII LNYSTGLSQD LFPYCSECKP PIVKRIGRQE FLLAGPGGLG MFATVAGISQ RAPVHWSENV IGAAVCFPYV IALDDEFITV HSMLDQQQKQ TLPFKEGHIL QDFEGRVIVA TSKGVYILVP LPLEKQIQDL LANRRVEEAL VLAKGARRNI PKEKFQVMYR RILQQAGFIQ FAQLQFLEAK ELFRSSQLDV RELISLYPFL LPTSSSFTRS HPPLHEYADL NQLTQGDQEK MAKCKRFLMS YLNEIRSTEV ANGYKEDIDT ALLKLYAEAD HDSLLDLLVT ENFCLLTDSA AWLEKHKKYF ALGLLYHYNK QDASAVQLWV NIVNGDIQDS TRSDLYEYIV DFLTYCLDQE LVWTHADWLL QKSEEIGVQI FTKRPLDEQQ QTSFNPDNII SSLKKYPKAL VKYLEHLVID RRLQKEEYHT HLAILYLEEV LRQRVSTGGK DVEATETQAK LRRLQKSDL YRVHLLKEKV QGAGLPMESA ILHGKLGEHE KALHILVHEM GDFSAAEDYC LWSSEGQGAA CRQRLFHTLL
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AMYLKAGPSA QDLTVAVDL LNHAREFDV TQVLQLPDT WSVQLLCPFL MGAMRDSIHA
RRTTQVALGL AKSENLIYMY DKMKLKGNV RLSERELCQL CQNPFGPEVF VRYPNGGLVH
THCAASRHTA PSSPSPGTRT

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Tgfbp1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Product Details

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: TGFBRAP1

Alternative Name: Tgfbra1 ([TGFBRAP1 Products](#))

Background: 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 (By similarity). {ECO:0000250}., 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. Functions predominantly in APPL1-containing endosomes and in degradative but not recycling trafficking of endocytosed cargo (By similarity). {ECO:0000250|UniProtKB:Q8WUH2}.

Molecular Weight: 98.3 kDa Including tag.

UniProt: [Q3UR70](#)

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: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process