



Datasheet for ABIN3074888

TRIM15 Protein (AA 1-465) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	TRIM15
Protein Characteristics:	AA 1-465
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM15 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MPATPSLKVV HELPACTLCA GPLEDAVTIP CGHTFCRLCL PALSQMGAQS SGKILLCPLC
QEEEAETPM APVPLGPLGE TYCEEHGEKI YFFCENDAEF LCVFCREGPT HQAHTVGFLD
EAIQPYRDRL RSRLEALSTE RDEIEDVKCQ EDQKLQVLLT QIESKKHQVE TAFERLQQEL
EQQRCLLLAR LRELEQQIWK ERDEYITKVS EEVTRLGAQV KELEEKCCQP ASELLQDVRV
NQSRCEMKTFF VSPEAISPDL VKKIRDFHRK ILTLPEMMRM FSENLAHHLE IDSGVITLDP
QTASRSLVLS EDRKSVRYTR QKKSLPDSPL RFDGLPAVLG FPGFSSGRHR WQVDLQLGDG
GGCTVGVAGE GVRRKGEMGL SAEDGVWAVI ISHQQCWAST SPGTDLPLSE IPRGVRVALD
YEAGQVTLHN AQTQEPIFTF TASFSGKVFP FFAVWKKGSC LTLKG

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 Exspasy'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 (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.

Product Details

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:	TRIM15
Alternative Name:	TRIM15 (TRIM15 Products)
Background:	<p>E3 ubiquitin-protein ligase TRIM15 (EC 2.3.2.27) (RING finger protein 93) (Zinc finger protein 178) (Zinc finger protein B7),FUNCTION: E3 ubiquitin ligase that plays a role in several processes including innate antiviral immunity, cell migration and chemotaxis (PubMed:34142270, PubMed:23077300). Acts as a 'Lys-63'-specific ubiquitin ligase for MAPK1/ERK2 and MAPK3/ERK1, promoting their activation by facilitating their interaction with MAP2K1 and MAP2K2 (PubMed:34497368). Plays also a role in cell migration and chemotaxis by acting as a stable focal adhesion component upon recruitment by multi-adaptor protein paxillin/PXN (PubMed:25015296). Functions in the RIGI-mediated interferon induction pathway upstream or at the level of MAVS (PubMed:23077300). Inhibits NF-kappa-B activation by turnover of 'Lys-63'-linked ubiquitination of MAP3K7/TAK1. Mechanistically, prevents TRIM8 cytoplasmic translocation and thus inhibits TRIM8-mediated 'Lys-63'-linked polyubiquitination of MAP3K7/TAK1 in the cytoplasm (PubMed:34871740). Plays also an important regulatory effect on the activation of hepatic stellate cells (HSCs). {ECO:0000269 PubMed:23077300, ECO:0000269 PubMed:25015296, ECO:0000269 PubMed:34142270, ECO:0000269 PubMed:34497368, ECO:0000269 PubMed:34871740}.</p>
Molecular Weight:	52.1 kDa
UniProt:	Q9C019

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 <i>Nicotiana tabacum</i> 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

Application Details

modifications.

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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)

Images



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