Datasheet for ABIN3074803

TRIM17 / RNF16 Protein (TRIM17) (AA 1-477) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	TRIM17 / RNF16 (TRIM17)
Protein Characteristics:	AA 1-477
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM17 / RNF16 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEAVELARKL QEEATCSICL DYFTDPVMTT CGHNFCRACI QLSWEKARGK KGRRKRKGSF PCPECREMSP QRNLLPNRLL TKVAEMAQQH PGLQKQDLCQ EHHEPLKLFC QKDQSPICVV CRESREHRLH RVLPAEEAVQ GYKLKLEEDM EYLREQITRT GNLQAREEQS LAEWQGKVKE RRERIVLEFE KMNLYLVEEE QRLLQALETE EEETASRLRE SVACLDRQGH SLELLLLQLE ERSTQGPLQM LQDMKEPLSR KNNVSVQCPE VAPPTRPRTV CRVPGQIEVL RGFLEDVVPD ATSAYPYLLL YESRQRRYLG SSPEGSGFCS KDRFVAYPCA VGQTAFSSGR HYWEVGMNIT GDALWALGVC RDNVSRKDRV PKCPENGFWV VQLSKGTKYL STFSALTPVM LMEPPSHMGI FLDFEAGEVS FYSVSDGSHL HTYSQATFPG PLQPFFCLGA PKSGQMVIST VTMWVKG **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 (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:	TRIM17 / RNF16 (TRIM17)
Alternative Name:	TRIM17 (TRIM17 Products)
Background:	E3 ubiquitin-protein ligase TRIM17 (EC 2.3.2.27) (RING finger protein 16) (RING-type E3 ubiquitin transferase TRIM17) (Testis RING finger protein) (Tripartite motif-containing protein 17),FUNCTION: E3 ubiquitin ligase that plays important roles in the regulation of neuronal apoptosis, selective autophagy or cell proliferation (PubMed:22023800, PubMed:19358823, PubMed:27562068). Stimulates the degradation of kinetochore ZW10 interacting protein ZWINT in a proteasome-dependent manner, leading to negative regulation of cell proliferation (PubMed:22023800). Inhibits autophagic degradation of diverse known targets while contributing to autophagy of midbodies. Autophagy-inhibitory activity involves MCL1, which TRIM17 assembles into complexes with the key autophagy regulator BECN1 (PubMed:27562068). Controls neuronal apoptosis by mediating ubiquitination and degradation of MCL1 to initiate neuronal death. In addition, regulates NFAT transcription factors NFATC3 and NFATC4 activities by preventing their nuclear localization, thus inhibiting their transcriptional activities. Decreases TRIM41-mediated degradation of ZSCAN2 thereby stimulating alpha-synuclein/SNCA transcription in neuronal cells (By similarity). Prevents the E3 ubiquitin-ligase activity of TRIM28 and its interaction with anti-apoptotic BCL2A1, blocking TRIM28 from ubiquitinating BCL2A1 (PubMed:19358823). {ECO:0000250|UniProtKB:Q7TPM3, ECO:0000269|PubMed:19358823, ECO:0000269|PubMed:22023800, ECO:0000269|PubMed:27562068}.
Molecular Weight:	54.4 kDa
UniProt:	Q9Y577

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.

Application Details

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. 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