

Datasheet for ABIN3074469

TRIM26 Protein (AA 1-539) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	TRIM26
Protein Characteristics:	AA 1-539
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM26 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MATSAPLRSL EEEVTCICL DYLRDPVTID CGHVFCRSCT TDVRPISGSR PVCPLCKKPF KKENIRPVWQ LASLVENIER LKVDKGRQPG EVTREQQDAK LCERHREKLH YYCEDDGKLL CVMCRESREH RPHTAVLMEK AAQPHREKIL NHLSTLRRDR DKIQQFQAKG EADILAALKK LQDQRQYIVA EFEQGHQFLR EREEHLLEQL AKLEQELTEG REKFKSRGVG ELARLALVIS ELEGKAQQPA AELMQDTRDF LNRYPRKKFW VGKPIARVVK KKTGEFSDKL LSLQRGLREF QGKLLRDLEY KTVSVTLDPQ SASGYLQLSE DWKCVTYTSL YKSAYLHPQQ FDCEPGVLGS KGFTWGVVYW EVEVEREGWS EDEEEGDEEE EEEEEEEEE AGYGDGYDDW ETDEDEESLG DEEEEEEEEE EEVLESCMVG VARDSVKRKG DLSLRPEDGV WALRLSSSGI WANTSPEAEL FPALRPRRVG IALDYEGGTV TFTNAESQEL IYFTATFTR RLVPFWLWKW PGTRLLLRP</p> <p>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.</p>
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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

Product Details

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:	TRIM26
Alternative Name:	TRIM26 (TRIM26 Products)
Background:	<p>Tripartite motif-containing protein 26 (EC 2.3.2.27) (Acid finger protein) (AFP) (RING finger protein 95) (Zinc finger protein 173),FUNCTION: E3 ubiquitin-protein ligase which regulates the IFN-beta production and antiviral response downstream of various DNA-encoded pattern-recognition receptors (PRRs). Plays also a central role in determining the response to different forms of oxidative stress by controlling levels of DNA glycosylases NEIL1, NEIL3 and NTH1 that are involved in repair of damaged DNA (PubMed:29610152, PubMed:36232914). Promotes nuclear IRF3 ubiquitination and proteasomal degradation (PubMed:25763818). Bridges together TBK1 and NEMO during the innate response to viral infection leading to the activation of TBK1. Positively regulates LPS-mediated inflammatory innate immune response by catalyzing the 'Lys-11'-linked polyubiquitination of TAB1 to enhance its activation and subsequent NF-kappa-B and MAPK signaling (PubMed:34017102). In a manner independent of its catalytic activity, inhibits WWP2, a SOX2-directed E3 ubiquitin ligase, and thus protects SOX2 from polyubiquitination and proteasomal degradation (PubMed:34732716). Ubiquitinates the histone acetyltransferase protein complex component PHF20 and thereby triggers its degradation in the nucleus after its recruitment by the histone demethylase KDM6B, serving as a scaffold protein (PubMed:23452852). Upon induction by TGF-beta, ubiquitinates the TFIID component TAF7 for proteasomal degradation (PubMed:29203640). Induces ferroptosis by ubiquitinating SLC7A11, a critical protein for lipid reactive oxygen species (ROS) scavenging (By similarity). Inhibits directly hepatitis B virus replication by mediating HBX ubiquitination and subsequent degradation (PubMed:35872575). {ECO:0000250 UniProtKB:Q99PN3, ECO:0000269 PubMed:23452852, ECO:0000269 PubMed:25763818, ECO:0000269 PubMed:26611359, ECO:0000269 PubMed:29203640, ECO:0000269 PubMed:29610152, ECO:0000269 PubMed:34017102, ECO:0000269 PubMed:34732716, ECO:0000269 PubMed:35872575, ECO:0000269 PubMed:36232914}., FUNCTION: (Microbial infection) Promotes herpes simplex</p>

Target Details

	virus type 2/HHV-2 infection in vaginal epithelial cells by decreasing the nuclear localization of IRF3, the primary mediator of type I interferon activation. {ECO:0000269 PubMed:33419081}.
Molecular Weight:	62.2 kDa
UniProt:	Q12899

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:	<p>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 modifications.</p> <p>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!</p>
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)



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