

Datasheet for ABIN3074475

TRIM8 Protein (AA 1-551) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	TRIM8
Protein Characteristics:	AA 1-551
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM8 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence: MAENWKNCFE EELICPICLH VFVEPVQLPC KHNFCRGCIG EAWAKDSGLV RCPECNQAYN
QKPGLEKNLK LTNIVEKFNA LHVEKPPAAL HCVFCRRGPP LPAQKVCLRC EAPCCQSHVQ
THLQQPSTAR GHLLVEADDV RAWSCPQHNA YRLYHCEAEQ VAVCQYCCYY SGAHQGH SVC
DVEIRRNEIR KMLMKQQDRL EEREQDIEDQ LYKLESDKRL VEEKVNQLKE EVRLQYEKLH
QLLDEDLRQT VEVLDKAQAK FCSENAAQAL HLGEMRQEAQ KLLGSLQLLF DKTEDVSFMK
NTKSVKILMD RTQTCTSSSL SPTKIGHLNS KLFLNEVAKK EKQLRKMLEG PFSTPVPFLQ
SVPLYPCGVS SSGAEKRKHS TAFPEASFLE TSSGPVGGQY GAAGTASGEG QSGQPLGPCS
STQHLVALPG GAQPVHSSPV FPPSQYPNGS AAQQPMLPQY GGRKILVCSV DNCYCSSVAN
HGGHQPYPRS GHFPWTVPSQ EYSHPLPPTP SVPQSLPSLA VRDWLDASQQ PGHQDFYRVY
GQPSTKHVYT S

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.

Product Details

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:	>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:	TRIM8
Alternative Name:	TRIM8 (TRIM8 Products)
Background:	<p>E3 ubiquitin-protein ligase TRIM8 (EC 2.3.2.27) (Glioblastoma-expressed RING finger protein) (RING finger protein 27) (RING-type E3 ubiquitin transferase TRIM8) (Tripartite motif-containing protein 8),FUNCTION: E3 ubiquitin-protein ligase that participates in multiple biological processes including cell survival, differentiation, apoptosis, and in particular, the innate immune response (PubMed:27981609, PubMed:28747347). Participates in the activation of interferon-gamma signaling by promoting proteasomal degradation of the repressor SOCS1 (PubMed:12163497). Plays a positive role in the TNFalpha and IL-1beta signaling pathways. Mechanistically, induces the 'Lys-63'-linked polyubiquitination of MAP3K7/TAK1 component leading to the activation of NF-kappa-B (PubMed:22084099, PubMed:23152791, PubMed:27981609, PubMed:34871740). Modulates also STAT3 activity through negative regulation of PIAS3, either by degradation of PIAS3 through the ubiquitin-proteasome pathway or exclusion of PIAS3 from the nucleus (PubMed:20516148). Negatively regulates TLR3/4-mediated innate immune response by catalyzing 'Lys-6'- and 'Lys-33'-linked polyubiquitination of TICAM1 and thereby disrupting the TICAM1-TBK1 interaction (PubMed:28747347).</p> <p>{ECO:0000269 PubMed:12163497, ECO:0000269 PubMed:20516148, ECO:0000269 PubMed:22084099, ECO:0000269 PubMed:23152791, ECO:0000269 PubMed:28747347, ECO:0000269 PubMed:34871740}.</p>
Molecular Weight:	61.5 kDa
UniProt:	Q9BZR9

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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Application Details

	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