

Datasheet for ABIN3096011

TRIM27 Protein (AA 1-513) (Strep Tag)



[Go to Product page](#)

Overview

| | |
|-------------------------------|---|
| Quantity: | 250 µg |
| Target: | TRIM27 |
| Protein Characteristics: | AA 1-513 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This TRIM27 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

| | |
|-----------|--|
| Brand: | AliCE® |
| Sequence: | <p>MASGSVAECL QQETTCPVCL QYFAEPMMLD CGHNICCACL ARCWGTAETN VSCPQCRETF PQRHMRPNRH LANVTQLVKQ LRTERPSGPG GEMGVCEKHR EPLKLYCEED QMPICVVCDR SREHRGHSVL PLEEAVEGFK EQIQNQLDHL KRVKDLKKRR RAQGEQARAE LLSLTQMERE KIVWEFEQLY HSLKEHEYRL LARLEELDLA IYNSINGAIT QFSCNISHLS SLIAQLEEKQ QQPTRELLQD IGDTLRAER IRIPEPWITP PDLQEKIHF AQKCLFLTES LKQFTEKMQS DMEKIQELRE AQLYSVDVTL DPDTAYPSLI LSDNLRQVRY SYLQQDLDPDN PERFNLFPCV LGSPCFIAGR HYWEVEVGDK AKWTIGVCED SVCRRGGVTS APQNGFWAVS LWYGKEYWAL TSPMTALPLR TPLQRVGIFL DYDAGEVSFY NVTERCHTFT FSHATFCGPV RPYFSLSYSG GKSAAPLIIC PMSGIDGFSG HVGNHGHSME TSP</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</p> |

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade:

custom-made

Target Details

Target: TRIM27

Alternative Name: TRIM27 ([TRIM27 Products](#))

Background: Zinc finger protein RFP (EC 2.3.2.27) (RING finger protein 76) (Ret finger protein) (Tripartite motif-containing protein 27),FUNCTION: E3 ubiquitin-protein ligase that mediates ubiquitination of various substrates and thereby plays a role in different processes including proliferation, innate immunity, apoptosis, immune response or autophagy (PubMed:22829933, PubMed:24144979, PubMed:29688809, PubMed:36111389). Ubiquitinates PIK3C2B and inhibits its activity by mediating the formation of 'Lys-48'-linked polyubiquitin chains, the function inhibits CD4 T-cell activation. Acts as a regulator of retrograde transport: together with MAGEL2, mediates the formation of 'Lys-63'-linked polyubiquitin chains at 'Lys-220' of WASHC1, leading to promote endosomal F-actin assembly (PubMed:23452853). Has a transcriptional repressor activity by cooperating with EPC1. Induces apoptosis by activating Jun N-terminal kinase and p38 kinase and also increases caspase-3-like activity independently of mitochondrial events. May function in male germ cell development. Has DNA-binding activity and preferentially bound to double-stranded DNA. Forms a complex with and ubiquitinates the ubiquitin-specific protease USP7, which in turn deubiquitinates RIPK1 resulting in the positive regulation of TNF-alpha-induced apoptosis (PubMed:24144979). In addition, acts with USP7 or PTPN11 as an inhibitor of the antiviral signaling pathway by promoting kinase TBK1 ubiquitination and degradation (PubMed:26358190, PubMed:29688809). Acts as a negative regulator of NOD2 signaling by mediating ubiquitination of NOD2, promoting its degradation by the proteasome (PubMed:22829933). Alternatively, facilitates mitophagy via stabilization of active TBK1 (PubMed:36111389). Negatively regulates autophagy flux under basal conditions by directly polyubiquitinating ULK1 (PubMed:35670107). During starvation-induced autophagy, catalyzes non-degradative ubiquitination of the kinase STK38L promoting its activation and phosphorylation of ULK1 leading to its ubiquitination and degradation to restrain the amplitude and duration of autophagy (PubMed:35670107). {ECO:0000269|PubMed:10976108, ECO:0000269|PubMed:12807881, ECO:0000269|PubMed:22128329, ECO:0000269|PubMed:22829933, ECO:0000269|PubMed:23452853, ECO:0000269|PubMed:24144979, ECO:0000269|PubMed:26358190, ECO:0000269|PubMed:29688809, ECO:0000269|PubMed:35670107, ECO:0000269|PubMed:36111389}., FUNCTION: (Microbial infection) Positively regulates hepatitis C virus replication by suppressing type I IFN response during infection. {ECO:0000269|PubMed:29688809}.

Molecular Weight: 58.5 kDa

Target Details

UniProt: [P14373](#)

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 *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.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months