

Datasheet for ABIN3074553

TRIM22 Protein (AA 1-498) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	TRIM22
Protein Characteristics:	AA 1-498
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM22 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MDFSVKVDIE KEVTCPCICLE LLTEPLSLDC GHSFCQACIT AKIKESVIIS RGESSCPVCQ</p> <p>TRFQPGNLRP NRHLANIVER VKEVKMSPQE GQKRDVCEHH GKKLQIFCKE DGKVICWVCE</p> <p>LSQEHQGHQT FRINEVVKEC QEKQLVALQR LIKEDQAEK LEDDIRQERT AWKNYIQIER</p> <p>QKILKGFNEM RVILDNEEQE ELQKLEEGEV NVLDNLAAAT DQLVQQRQDA STLISDLQRR</p> <p>LRGSSVEMLQ DVIDVMKRSE SWTLKKPKSV SKKLKSVFRV PDLGMLQVL KELTDVQYYW</p> <p>VDVMLNPGSA TSNVAISVDQ RQVKTVRTCT FKNSNPCDFS AFGVFGCQYF SSGKYYWEVD</p> <p>VSGKIAWILG VHSKISSLNK RKSSGFAFDP SVNYSKVYSR YRPQYGYWVI GLQNTCEYNA</p> <p>FEDSSSDPK VLTLMFMAVPP CRIGVFLDYE AGIVSFFNVT NHGALIYKFS GCRFSRPAYP</p> <p>YFNPWNCLVP MTVCPPSS</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.

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:	TRIM22
Alternative Name:	TRIM22 (TRIM22 Products)
Background:	<p>E3 ubiquitin-protein ligase TRIM22 (EC 2.3.2.27) (50 kDa-stimulated trans-acting factor) (RING finger protein 94) (RING-type E3 ubiquitin transferase TRIM22) (Staf-50) (Tripartite motif-containing protein 22),FUNCTION: Interferon-induced E3 ubiquitin ligase that plays important roles in innate and adaptive immunity (PubMed:25683609, PubMed:35777501). Restricts the replication of many viruses including HIV-1, encephalomyocarditis virus (EMCV), hepatitis B virus (HBV), hepatitis C virus (HCV) or Zika virus (ZIKV) (PubMed:25683609, PubMed:35777501, PubMed:36042495). Mechanistically, negatively regulates HCV replication by promoting ubiquitination and subsequent degradation of viral NS5A (PubMed:25683609). Acts also by promoting the degradation of Zika virus NS1 and NS3 proteins through proteasomal degradation (PubMed:36042495). Acts as a suppressor of basal HIV-1 LTR-driven transcription by preventing Sp1 binding to the HIV-1 promoter (PubMed:26683615). Plays also a role in antiviral immunity by co-regulating together with NT5C2 the RIGI/NF-kappa-B pathway by promoting 'Lys-63'-linked ubiquitination of RIGI, while NT5C2 is responsible for 'Lys-48'-linked ubiquitination of RIGI (PubMed:36159777). Participates in adaptive immunity by suppressing the amount of MHC class II protein in a negative feedback manner in order to limit the extent of MHC class II induction (PubMed:35777501). {ECO:0000269 PubMed:18389079, ECO:0000269 PubMed:18656448, ECO:0000269 PubMed:19218198, ECO:0000269 PubMed:19585648, ECO:0000269 PubMed:25683609, ECO:0000269 PubMed:26683615, ECO:0000269 PubMed:35777501, ECO:0000269 PubMed:36042495, ECO:0000269 PubMed:36159777}.</p>
Molecular Weight:	56.9 kDa
UniProt:	Q8IYM9

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.
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Application Details

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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