

Datasheet for ABIN3119262

## TRAF3IP3 Protein (AA 1-551) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	TRAF3IP3
Protein Characteristics:	AA 1-551
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRAF3IP3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MISPDPRPSP GLARWAESYE AKCERRQEIR ESRRCRPNVT TCRQVGKTLR IQQREQLQRA  RLQQFFRRRN LELEEKGKAQ HPQAREQGPS RRPQVTVLK EPLSCARRIS SPREQVTGTS  SEVFPAQHPP PSGICRDLSD HLSSQAGGLP PQDTPIKKPP KHHRGQTQKA EGPTIKNDAS  QQTNYGVAVL DKEIIQLSDY LKEALQRELV LKQKMVILQD LLSTLIQASD SSWKGQLNED  KLKGKLSLE NQLYTCTQKY SPWGMKKVLL EMEDQKNSYE QKAKESLQKV LEEKMNAEQQ  LQSTQRSLAL AEQKCEEWRS QYEALKEDWR TLGTQHRELE SQLHVLQSKL QGADSRDLQM  NQALRFLNE HQQLQAKIEC LQGDRDLCSL DTQDLQDQLK RSEAELTLV TRVQQLQGLL  QNQSLQLQEQ EKLLTKKDQA LPVWSPKSFP NEVEPEGTGK EKDWDLRDQL QKKTLLQAK  EKECRELHSE LDNLSDEYLS CLRKLQHCRE ELNQSQQLPP RRQCGRWLPV LMVVIAAALA  VFLANKDNLM I</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.**

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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 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.

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### Purification:

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

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### Purity:

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

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### Grade:

custom-made

## Target Details

Target:	TRAF3IP3
Alternative Name:	TRAF3IP3 ( <a href="#">TRAF3IP3 Products</a> )
Background:	<p>TRAF3-interacting JNK-activating modulator (TRAF3-interacting protein 3),FUNCTION: Adapter protein that plays essential roles in both innate and adaptive immunity. Plays a crucial role in the regulation of thymocyte development (PubMed:26195727). Mechanistically, mediates TCR-stimulated activation through recruiting MAP2K1/MEK1 to the Golgi and, thereby, facilitating the interaction of MAP2K1/MEK1 with its activator BRAF (PubMed:26195727). Also plays an essential role in regulatory T-cell stability and function by recruiting the serine-threonine phosphatase catalytic subunit (PPP2CA) to the lysosome, thereby facilitating the interaction of PP2Ac with the mTORC1 component RPTOR and restricting glycolytic metabolism (PubMed:30115741). Positively regulates TLR4 signaling activity in macrophage-mediated inflammation by acting as a molecular clamp to facilitate LPS-induced translocation of TLR4 to lipid rafts (PubMed:30573680). In response to viral infection, facilitates the recruitment of TRAF3 to MAVS within mitochondria leading to IRF3 activation and interferon production (PubMed:31390091). However, participates in the maintenance of immune homeostasis and the prevention of overzealous innate immunity by promoting 'Lys-48'-dependent ubiquitination of TBK1 (PubMed:32366851). {ECO:0000269 PubMed:26195727, ECO:0000269 PubMed:30115741, ECO:0000269 PubMed:30573680, ECO:0000269 PubMed:31390091, ECO:0000269 PubMed:32366851}.</p>
Molecular Weight:	63.6 kDa
UniProt:	<a href="#">Q9Y228</a>

## Application Details

Application Notes:	<p>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.</p>
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</p>

## 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