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TRAF3 Protein (AA 1-568) (Strep Tag)



Image



Go to Product page

Overview

Quantity:	1 mg
Target:	TRAF3
Protein Characteristics:	AA 1-568
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRAF3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:

MESSKKMDSP GALQTNPPLK LHTDRSAGTP VFVPEQGGYK EKFVKTVEDK YKCEKCHLVL CSPKQTECGH RFCESCMAAL LSSSSPKCTA CQESIVKDKV FKDNCCKREI LALQIYCRNE SRGCAEQLML GHLLVHLKND CHFEELPCVR PDCKEKVLRK DLRDHVEKAC KYREATCSHC KSQVPMIALQ KHEDTDCPCV VVSCPHKCSV QTLLRSELSA HLSECVNAPS TCSFKRYGCV FQGTNQQIKA HEASSAVQHV NLLKEWSNSL EKKVSLLQNE SVEKNKSIQS LHNQICSFEI EIERQKEMLR NNESKILHLQ RVIDSQAEKL KELDKEIRPF RQNWEEADSM KSSVESLQNR VTELESVDKS AGQVARNTGL LESQLSRHDQ MLSVHDIRLA DMDLRFQVLE TASYNGVLIW KIRDYKRRKQ EAVMGKTLSL YSQPFYTGYF GYKMCARVYL NGDGMGKGTH LSLFFVIMRG EYDALLPWPF KQKVTLMLMD QGSSRRHLGD AFKPDPNSSS FKKPTGEMNI ASGCPVFVAQ TVLENGTYIK DDTIFIKVIV DTSDLPDP

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 posttranslational 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 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

TRAF3 Target:

Alternative Name: TRAF3 (TRAF3 Products)

Background: TNF receptor-associated factor 3 (EC 2.3.2.27) (CD40 receptor-associated factor 1) (CRAF1)

> (CD40-binding protein) (CD40BP) (LMP1-associated protein 1) (LAP1) (RING-type E3 ubiquitin transferase TRAF3), FUNCTION: Cytoplasmic E3 ubiquitin ligase that regulates various signaling pathways, such as the NF-kappa-B, mitogen-activated protein kinase (MAPK) and interferon regulatory factor (IRF) pathways, and thus controls a lot of biological processes in both immune and non-immune cell types (PubMed:33148796, PubMed:33608556). In TLR and RLR signaling pathways, acts as an E3 ubiquitin ligase promoting the synthesis of 'Lys-63'-linked polyubiquitin chains on several substrates such as ASC that lead to the activation of the type I interferon response or the inflammasome (PubMed:25847972, PubMed:27980081). Following the activation of certain TLRs such as TLR4, acts as a negative NF-kappa-B regulator, possibly to avoid unregulated inflammatory response, and its degradation via 'Lys-48'-linked polyubiquitination is required for MAPK activation and production of inflammatory cytokines. Alternatively, when TLR4 orchestrates bacterial expulsion, TRAF3 undergoes 'Lys-33'-linked polyubiquitination and subsequently binds to RALGDS, mobilizing the exocyst complex to rapidly expel intracellular bacteria back for clearance (PubMed:27438768). Acts also as a constitutive negative regulator of the alternative NF-kappa-B pathway, which controls B-cell survival and lymphoid organ development. Required for normal antibody isotype switching from IgM to IgG. Plays a role T-cell dependent immune responses. Down-regulates proteolytic processing of NFKB2, and thereby inhibits non-canonical activation of NF-kappa-B. Promotes ubiquitination and proteasomal degradation of MAP3K14. {ECO:0000269|PubMed:15084608, ECO:0000269|PubMed:15383523, ECO:0000269|PubMed:17991829, ECO:0000269|PubMed:19937093, ECO:0000269|PubMed:20097753,

ECO:0000269|PubMed:20185819, ECO:0000269|PubMed:25847972,

ECO:0000269|PubMed:27980081, ECO:0000269|PubMed:32562145,

Target Details

Molecular Weight:

UniProt:

Pathways:

Comment:

ECO:0000269|PubMed:33148796, ECO:0000269|PubMed:33608556,
ECO:0000269|PubMed:34011520}.

64.5 kDa

Q13114

NF-kappaB Signaling, Apoptosis, TLR Signaling, Activation of Innate immune Response,

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.

Hepatitis C, Toll-Like Receptors Cascades

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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