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TICAM1 Protein (AA 1-712) (Strep Tag)



Overview

Quantity:	1 mg
Target:	TICAM1
Protein Characteristics:	AA 1-712
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TICAM1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:

MACTGPSLPS AFDILGAAGO DKLLYLKHKL KTPRPGCQGO DLLHAMVLLK LGQETEARIS LEALKADAVA RLVARQWAGV DSTEDPEEPP DVSWAVARLY HLLAEEKLCP ASLRDVAYQE AVRTLSSRDD HRLGELQDEA RNRCGWDIAG DPGSIRTLQS NLGCLPPSSA LPSGTRSLPR PIDGVSDWSQ GCSLRSTGSP ASLASNLEIS QSPTMPFLSL HRSPHGPSKL CDDPQASLVP EPVPGGCQEP EEMSWPPSGE IASPPELPSS PPPGLPEVAP DATSTGLPDT PAAPETSTNY PVECTEGSAG PQSLPLPILE PVKNPCSVKD QTPLQLSVED TTSPNTKPCP PTPTTPETSP PPPPPPSST PCSAHLTPSS LFPSSLESSS EQKFYNFVIL HARADEHIAL RVREKLEALG VPDGATFCED FQVPGRGELS CLQDAIDHSA FIILLLTSNF DCRLSLHQVN QAMMSNLTRQ GSPDCVIPFL PLESSPAQLS SDTASLLSGL VRLDEHSQIF ARKVANTFKP HRLQARKAMW RKEQDTRALR EQSQHLDGER MQAAALNAAY SAYLQSYLSY QAQMEQLQVA FGSHMSFGTG APYGARMPFG GQVPLGAPPP FPTWPGCPQP PPLHAWQAGT PPPPSPQPAA FPQSLPFPQS PAFPTASPAP PQSPGLQPLI IHHAQMVQLG LNNHMWNQRG SQAPEDKTQE AE

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.
- 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)

Target Details

Target: TICAM1

Alternative Name: TICAM1 (TICAM1 Products)

Background:

TIR domain-containing adapter molecule 1 (TICAM-1) (Proline-rich, vinculin and TIR domaincontaining protein B) (Putative NF-kappa-B-activating protein 502H) (Toll-interleukin-1 receptor domain-containing adapter protein inducing interferon beta) (MyD88-3) (TIR domain-containing adapter protein inducing IFN-beta), FUNCTION: Involved in innate immunity against invading pathogens. Adapter used by TLR3, TLR4 (through TICAM2) and TLR5 to mediate NF-kappa-B and interferon-regulatory factor (IRF) activation, and to induce apoptosis (PubMed:12471095, PubMed:12539043, PubMed:14739303, PubMed:28747347). Ligand binding to these receptors results in TRIF recruitment through its TIR domain (PubMed:12471095, PubMed:12539043, PubMed:14739303). Distinct protein-interaction motifs allow recruitment of the effector proteins TBK1, TRAF6 and RIPK1, which in turn, lead to the activation of transcription factors IRF3 and IRF7, NF-kappa-B and FADD respectively (PubMed:12471095, PubMed:12539043, PubMed:14739303). Phosphorylation by TBK1 on the pLxIS motif leads to recruitment and subsequent activation of the transcription factor IRF3 to induce expression of type I interferon and exert a potent immunity against invading pathogens (PubMed:25636800). Component of a multi-helicase-TICAM1 complex that acts as a cytoplasmic sensor of viral double-stranded RNA (dsRNA) and plays a role in the activation of a cascade of antiviral responses including the induction of pro-inflammatory cytokines (By similarity). {ECO:0000250|UniProtKB:Q80UF7, ECO:0000269|PubMed:12471095, ECO:0000269|PubMed:12539043, ECO:0000269|PubMed:14739303, ECO:0000269|PubMed:25636800}.

Molecular Weight:

76.4 kDa

UniProt:

Q8IUC6

Pathways:

TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of

Bacterial Origin, Hepatitis C, Toll-Like Receptors Cascades

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

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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)