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Datasheet for ABIN3074236 TIFA Protein (AA 1-184) (Strep Tag)





Overview

Quantity:	1 mg
Target:	TIFA
Protein Characteristics:	AA 1-184
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TIFA protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MTSFEDADTE ETVTCLQMTV YHPGQLQCGI FQSISFNREK LPSSEVVKFG RNSNICHYTF
	QDKQVSRVQF SLQLFKKFNS SVLSFEIKNM SKKTNLIVDS RELGYLNKMD LPYRCMVRFG
	EYQFLMEKED GESLEFFETQ FILSPRSLLQ ENNWPPHRPI PEYGTYSLCS SQSSSPTEMD ENES
	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
	 Protein expressed with ALICE® and purified by multi-step, protein-specific process to ensure correct folding and modification.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3074236 | 04/16/2024 | Copyright antibodies-online. All rights reserved. • 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 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 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®):
	 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)
Grade:	Crystallography grade

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Target Details

Target:	TIFA
Alternative Name:	TIFA (TIFA Products)
Background:	TRAF-interacting protein with FHA domain-containing protein A (Putative MAPK-activating
	protein PM14) (Putative NF-kappa-B-activating protein 20) (TRAF2-binding protein),FUNCTION:
	Adapter molecule that plays a key role in the activation of pro-inflammatory NF-kappa-B
	signaling following detection of bacterial pathogen-associated molecular pattern metabolites
	(PAMPs) (PubMed:12566447, PubMed:15492226, PubMed:26068852, PubMed:28877472,
	PubMed:28222186, PubMed:30111836). Promotes activation of an innate immune response by
	inducing the oligomerization and polyubiquitination of TRAF6, which leads to the activation of
	TAK1 and IKK through a proteasome-independent mechanism (PubMed:15492226,
	PubMed:26068852). TIFA-dependent innate immune response is triggered by ADP-D-glycero-
	beta-D-manno-heptose (ADP-Heptose), a potent PAMP present in all Gram-negative and some
	Gram-positive bacteria: ADP-Heptose is recognized by ALPK1, which phosphorylates TIFA at
	Thr-9, leading to TIFA homooligomerization and subsequent activation of pro-inflammatory NF
	kappa-B signaling (PubMed:30111836). {ECO:0000269 PubMed:12566447,
	EC0:0000269 PubMed:15492226, EC0:0000269 PubMed:26068852,
	ECO:0000269 PubMed:28222186, ECO:0000269 PubMed:28877472,
	ECO:0000269 PubMed:30111836}.
Molecular Weight:	21.4 kDa
UniProt:	Q96CG3
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
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Application Details	
	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. 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)

Images

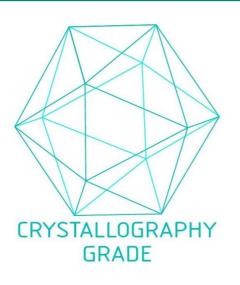


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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