

Datasheet for ABIN3076244  
**ZFAND1 Protein (AA 1-268) (Strep Tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	ZFAND1
Protein Characteristics:	AA 1-268
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZFAND1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

## Product Details

Sequence: MAELDIGQHC QVEHCRQRDF LPFVCDDCSG IFCLEHRSRE SHGCPEVTVI NERLKTDQHT  
SYPCSFKDCA ERELVAVICP YCEKNFCLRH RHQSDHECEK LEIPKPRMAA TQKLVKDIID  
SKTGETASKR WKGAKNSETA AKVALMKLKM HADGDKSLPQ TERIYFQVFL PKGSKEKSKP  
MFFCHRWSIG KAI DFAASLA RLKNDNNKFT AKKLRLCHIT SGEALPLDHT LETWIAKEDC  
PLYNGGNIIL EYLNDDEEQFC KNVESYLE

**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

## Product Details

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- 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:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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## Target Details

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Target:	ZFAND1
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Alternative Name:	ZFAND1 ( <a href="#">ZFAND1 Products</a> )
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Background:	AN1-type zinc finger protein 1 (Zinc finger AN1-type-containing protein 1),FUNCTION: Plays a role in the regulation of cytoplasmic stress granules (SGs) turnover. SGs are dynamic and
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## Target Details

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transient cytoplasmic ribonucleoprotein assemblies important for cellular protein homeostasis when protein production is suspended after acute exogenous stress (PubMed:29804830). Associates with SGs and is involved in the efficient and specific arsenite-induced clearance process of SGs through the recruitment of the ubiquitin-selective ATPase VCP and the 26S proteasome (PubMed:29804830). This process requires both complexes for efficient degradation of damaged ubiquitinated SG proteins during recovery from arsenite stress, and hence avoiding aberrant cytoplasmic SGs degradation via autophagy (PubMed:29804830). {ECO:0000269|PubMed:29804830}.

Molecular Weight: 30.8 kDa

UniProt: [Q8TCF1](#)

## Application Details

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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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Restrictions: For Research Use only

## Handling

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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.

## Handling

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)