antibodies

# Datasheet for ABIN3114574 Triadin Protein (TRDN) (AA 1-729) (Strep Tag)



Overview

Image

Quantity:	1 mg
Target:	Triadin (TRDN)
Protein Characteristics:	AA 1-729
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Triadin protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

# Product Details

Sequence:	MTEITAEGNA STTTTVIDSK NGSVPKSPGK VLKRTVTEDI VTTFSSPAAW LLVIALIITW
	SAVAIVMFDL VDYKNFSASS IAKIGSDPLK LVRDAMEETT DWIYGFFSLL SDIISSEDEE
	DDDGDEDTDK GEIDEPPLRK KEIHKDKTEK QEKPERKIQT KVTHKEKEKG KEKVREKEKP
	EKKATHKEKI EKKEKPETKT LAKEQKKAKT AEKSEEKTKK EVKGGKQEKV KQTAAKVKEV
	QKTPSKPKEK EDKEKAAVSK HEQKDQYAFC RYMIDIFVHG DLKPGQSPAI PPPLPTEQAS
	RPTPASPALE EKEGEKKKAE KKVTSETKKK EKEDIKKKSE KETAIDVEKK EPGKASETKQ
	GTVKIAAQAA AKKDEKKEDS KKTKKPAEVE QPKGKKQEKK EKHVEPAKSP KKEHSVPSDK
	QVKAKTERAK EEIGAVSIKK AVPGKKEEKT TKTVEQEIRK EKSGKTSSIL KDKEPIKGKE
	EKVPASLKEK EPETKKDEKM SKAGKEVKPK PPQLQGKKEE KPEPQIKKEA KPAISEKVQI
	HKQDIVKPEK TVSHGKPEEK VLKQVKAVTI EKTAKPKPTK KAEHREREPP SIKTDKPKPT
	PKGTSEVTES GKKKTEISEK ESKEKADMKH LREEKVSTRK ESLQLHNVTK AEKPARVSKD
	VEDVPASKKA KEGTEDVSPT KQKSPISFFQ CVYLDGYNGY GFQFPFTPAD RPGESSGQAN

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# SPGQKQQGQ 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

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	(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	
Target:	Triadin (TRDN)
Alternative Name:	TRDN (TRDN Products)
Background:	Triadin,FUNCTION: Contributes to the regulation of lumenal Ca2+ release via the sarcoplasmic
	reticulum calcium release channels RYR1 and RYR2, a key step in triggering skeletal and heart
	muscle contraction. Required for normal organization of the triad junction, where T-tubules and
	the sarcoplasmic reticulum terminal cisternae are in close contact (By similarity). Required for
	normal skeletal muscle strength. Plays a role in excitation-contraction coupling in the heart and
	in regulating the rate of heart beats. {ECO:0000250 UniProtKB:E9Q9K5,
	ECO:0000269 PubMed:22422768}.
Molecular Weight:	81.6 kDa
UniProt:	Q13061
Pathways:	Negative Regulation of Transporter Activity
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.

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# Application Details

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!

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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