

Datasheet for ABIN3095898 THOC1 Protein (AA 1-657) (Strep Tag)



Overview

Quantity:	250 µg
Target:	THOC1
Protein Characteristics:	AA 1-657
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This THOC1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSPTPPLFSL PEARTRFTKS TREALNNKNI KPLLSTFSQV PGSENEKKCT LDQAFRGILE
	EEIINHSSCE NVLAIISLAI GGVTEGICTA STPFVLLGDV LDCLPLDQCD TIFTFVEKNV
	ATWKSNTFYS AGKNYLLRMC NDLLRRLSKS QNTVFCGRIQ LFLARLFPLS EKSGLNLQSQ
	FNLENVTVFN TNEQESTLGQ KHTEDREEGM DVEEGEMGDE EAPTTCSIPI DYNLYRKFWS
	LQDYFRNPVQ CYEKISWKTF LKYSEEVLAV FKSYKLDDTQ ASRKKMEELK TGGEHVYFAK
	FLTSEKLMDL QLSDSNFRRH ILLQYLILFQ YLKGQVKFKS SNYVLTDEQS LWIEDTTKSV
	YQLLSENPPD GERFSKMVEH ILNTEENWNS WKNEGCPSFV KERTSDTKPT RIIRKRTAPE
	DFLGKGPTKK ILMGNEELTR LWNLCPDNME ACKSETREHM PTLEEFFEEA IEQADPENMV
	ENEYKAVNNS NYGWRALRLL ARRSPHFFQP TNQQFKSLPE YLENMVIKLA KELPPPSEEI
	KTGEDEDED NDALLKENES PDVRRDKPVT GEQIEVFANK LGEQWKILAP YLEMKDSEIR
	QIECDSEDMK MRAKQLLVAW QDQEGVHATP ENLINALNKS GLSDLAESLT NDNETNS

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 ABIN3095898 | 02/26/2025 | Copyright antibodies-online. All rights reserved. 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 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 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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Product Details

Grade:

custom-made

Target Details

Target:	THOC1
Alternative Name:	THOC1 (THOC1 Products)
Background:	THO complex subunit 1 (Tho1) (Nuclear matrix protein p84) (p84N5) (hTREX84),FUNCTION:
	Required for efficient export of polyadenylated RNA. Acts as component of the THO
	subcomplex of the TREX complex which is thought to couple mRNA transcription, processing
	and nuclear export, and which specifically associates with spliced mRNA and not with
	unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent
	mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a
	splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions
	in mRNA export to the cytoplasm via the TAP/NFX1 pathway. The TREX complex is essential
	for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and
	infectious virus production. Regulates transcriptional elongation of a subset of genes. Involved
	in genome stability by preventing co-transcriptional R-loop formation. May play a role in hair cel
	formation, hence may be involved in hearing (By similarity). {ECO:0000250 UniProtKB:Q7SYB2}.
	FUNCTION: Participates in an apoptotic pathway which is characterized by activation of
	caspase-6, increases in the expression of BAK1 and BCL2L1 and activation of NF-kappa-B. This
	pathway does not require p53/TP53, nor does the presence of p53/TP53 affect the efficiency o
	cell killing. Activates a G2/M cell cycle checkpoint prior to the onset of apoptosis. Apoptosis is
	inhibited by association with RB1.
Molecular Weight:	75.7 kDa
UniProt:	Q96FV9

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

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mitochondria to drive the reaction. During our lysate completion steps, the additional
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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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months