

Datasheet for ABIN3092537 EXOSC10 Protein (AA 1-885) (Strep Tag)



Overview

Quantity:	250 µg
Target:	EXOSC10
Protein Characteristics:	AA 1-885
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EXOSC10 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAPPSTREPR VLSATSATKS DGEMVLPGFP DADSFVKFAL GSVVAVTKAS GGLPQFGDEY
	DFYRSFPGFQ AFCETQGDRL LQCMSRVMQY HGCRSNIKDR SKVTELEDKF DLLVDANDVI
	LERVGILLDE ASGVNKNQQP VLPAGLQVPK TVVSSWNRKA AEYGKKAKSE TFRLLHAKNI
	IRPQLKFREK IDNSNTPFLP KIFIKPNAQK PLPQALSKER RERPQDRPED LDVPPALADF
	IHQQRTQQVE QDMFAHPYQY ELNHFTPADA VLQKPQPQLY RPIEETPCHF ISSLDELVEL
	NEKLLNCQEF AVDLEHHSYR SFLGLTCLMQ ISTRTEDFII DTLELRSDMY ILNESLTDPA
	IVKVFHGADS DIEWLQKDFG LYVVNMFDTH QAARLLNLGR HSLDHLLKLY CNVDSNKQYQ
	LADWRIRPLP EEMLSYARDD THYLLYIYDK MRLEMWERGN GQPVQLQVVW QRSRDICLKK
	FIKPIFTDES YLELYRKQKK HLNTQQLTAF QLLFAWRDKT ARREDESYGY VLPNHMMLKI
	AEELPKEPQG IIACCNPVPP LVRQQINEMH LLIQQAREMP LLKSEVAAGV KKSGPLPSAE
	RLENVLFGPH DCSHAPPDGY PIIPTSGSVP VQKQASLFPD EKEDNLLGTT CLIATAVITL

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 1/5 | Product datasheet for ABIN3092537 | 02/25/2025 | Copyright antibodies-online. All rights reserved. FNEPSAEDSK KGPLTVAQKK AQNIMESFEN PFRMFLPSLG HRAPVSQAAK FDPSTKIYEI SNRWKLAQVQ VQKDSKEAVK KKAAEQTAAR EQAKEACKAA AEQAISVRQQ VVLENAAKKR ERATSDPRTT EQKQEKKRLK ISKKPKDPEP PEKEFTPYDY SQSDFKAFAG NSKSKVSSQF DPNKQTPSGK KCIAAKKIKQ SVGNKSMSFP TGKSDRGFRY NWPQR 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.

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Product Details	
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).
Grade:	custom-made
Target Details	
Target:	EXOSC10
Alternative Name:	EXOSC10 (EXOSC10 Products)
Background:	Exosome complex component 10 (EC 3.1.13) (Autoantigen PM/Scl 2) (P100 polymyositis- scleroderma overlap syndrome-associated autoantigen) (Polymyositis/scleroderma autoantigen 100 kDa) (PM/Scl-100) (Polymyositis/scleroderma autoantigen 2),FUNCTION: Catalytic component of the RNA exosome complex which has 3'->5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non- coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:34516797). The RNA exosome may be involved in Ig class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. EXOSC10 is required for nucleolar localization of C1D and probably mediates the association of MTREX, C1D and MPHOSPH6 with the RNA exosome involved in the maturation of 5.8S rRNA. Plays a role in the recruitment of replication
	protein A complex (RPA) and RAD51 to DNA double-strand breaks caused by irradiation, contributing to DNA repair by homologous recombination (PubMed:31086179, PubMed:25632158). Regulates levels of damage-induced RNAs in order to prevent DNA-RNA

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Restrictions:

	protein production are removed, leaving only the protein production machinery and the
	During lysate production, the cell wall and other cellular components that are not required for
	modifications.
	even the most difficult-to-express proteins, including those that require post-translational
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	guarantee though.
Application Notes:	as well. As the protein has not been tested for functional studies yet we cannot offer a
	In addition to the applications listed above we expect the protein to work for functional studies
Application Details	
UniProt:	Q01780
Molecular Weight:	100.8 kDa
	ECO:0000269 PubMed:36912080}.
	EC0:0000269 PubMed:32830871, EC0:0000269 PubMed:34516797,
	ECO:0000269 PubMed:26857222, ECO:0000269 PubMed:31086179,
	EC0:0000269 PubMed:20699273, EC0:0000269 PubMed:25632158,
	EC0:0000269 PubMed:19056938, EC0:0000269 PubMed:20368444,
	ECO:0000269 PubMed:17545563, ECO:0000269 PubMed:18172165,
	EC0:0000269 PubMed:16455498, EC0:0000269 PubMed:17412707,
	{EC0:0000250 UniProtKB:P56960, EC0:0000269 PubMed:14527413,
	translated into toxic dipeptide repeat proteins (PubMed:32830871).
	(PubMed:36912080). Regulates metabolism of C9orf72-derived repeat RNA that can be
	translation (PubMed:36912080, PubMed:26857222). Required for cell proliferation
	similarity). Plays a role in proper embryo development (By similarity). Required for global proteir
	similarity). Required for normal testis development and mitotic division of spermatogonia (By
	(PubMed:31086179). Plays a role in oocyte development, maturation and survival (By
	hybrid formation at DNA double-strand breaks and limit DNA end resection after damage

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needed is the DNA that codes for the desired protein!

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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

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