antibodies

Datasheet for ABIN3095068 POLR3E Protein (AA 1-708) (Strep Tag)





Overview

Quantity:	1 mg
Target:	POLR3E
Protein Characteristics:	AA 1-708
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLR3E protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MANEEDDPVV QEIDVYLAKS LAEKLYLFQY PVRPASMTYD DIPHLSAKIK PKQQKVELEM
	AIDTLNPNYC RSKGEQIALN VDGACADETS TYSSKLMDKQ TFCSSQTTSN TSRYAAALYR
	QGELHLTPLH GILQLRPSFS YLDKADAKHR EREAANEAGD SSQDEAEDDV KQITVRFSRP
	ESEQARQRRV QSYEFLQKKH AEEPWVHLHY YGLRDSRSEH ERQYLLCPGS SGVENTELVK
	SPSEYLMMLM PPSQEEEKDK PVAPSNVLSM AQLRTLPLAD QIKILMKNVK VMPFANLMSL
	LGPSIDSVAV LRGIQKVAML VQGNWVVKSD ILYPKDSSSP HSGVPAEVLC RGRDFVMWKF
	TQSRWVVRKE VATVTKLCAE DVKDFLEHMA VVRINKGWEF ILPYDGEFIK KHPDVVQRQH
	MLWTGIQAKL EKVYNLVKET MPKKPDAQSG PAGLVCGDQR IQVAKTKAQQ NHALLERELQ
	RRKEQLRVPA VPPGVRIKEE PVSEEGEEDE EQEAEEEPMD TSPSGLHSKL ANGLPLGRAA
	GTDSFNGHPP QGCASTPVAR ELKAFVEATF QRQFVLTLSE LKRLFNLHLA SLPPGHTLFS
	GISDRMLQDT VLAAGCKQIL VPFPPQTAAS PDEQKVFALW ESGDMSDQHR QVLLEIFSKN
	YRVRRNMIQS RLTQECGEDL SKQEVDKVLK DCCVSYGGMW YLKGTVQS

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 ABIN3095068 | 04/16/2024 | 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 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 (ALiCE®):

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	 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:	POLR3E
Alternative Name:	POLR3E (POLR3E Products)
Background:	DNA-directed RNA polymerase III subunit RPC5 (RNA polymerase III subunit C5) (DNA-directed
	RNA polymerase III 80 kDa polypeptide),FUNCTION: DNA-dependent RNA polymerase catalyzes
	the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates
	(PubMed:20413673, PubMed:12391170, PubMed:35637192). Specific peripheric component of
	RNA polymerase III (Pol III) which synthesizes small non-coding RNAs including 5S rRNA,
	snRNAs, tRNAs and miRNAs from at least 500 distinct genomic loci. Assembles with
	POLR3D/RPC4 forming a subcomplex that binds the Pol III core. Enables recruitment of Pol III
	at transcription initiation site and drives transcription initiation from both type 2 and type 3 DNA
	promoters. Required for efficient transcription termination and reinitiation (PubMed:20413673,
	PubMed:12391170, PubMed:35637192) (By similarity). Plays a key role in sensing and limiting
	infection by intracellular bacteria and DNA viruses. Acts as a nuclear and cytosolic DNA sensor
	involved in innate immune response. Can sense non-self dsDNA that serves as template for
	transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr
	virus-encoded RNAs (EBERs) induce type I interferon and NF-kappa-B through the RIG-I
	pathway (PubMed:19609254, PubMed:19631370). {ECO:0000250 UniProtKB:P36121,
	EC0:0000269 PubMed:12391170, EC0:0000269 PubMed:19609254,
	EC0:0000269 PubMed:19631370, EC0:0000269 PubMed:20413673,
	ECO:0000269 PubMed:35637192}.
Molecular Weight:	79.9 kDa
UniProt:	Q9NVU0

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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 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.
Expiny Date:	Unlimited (if stored properly)

Expiry Date: Unlimited (if stored properly)



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

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