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PUF60 Protein (AA 1-559) (Strep Tag)



Image



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Overview

Quantity:	1 mg
Target:	PUF60
Protein Characteristics:	AA 1-559
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PUF60 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:

MATATIALQV NGQQGGSEP AAAAAVVAAG DKWKPPQGTD SIKMENGQST AAKLGLPPLT PEQQEALQKA KKYAMEQSIK SVLVKQTIAH QQQQLTNLQM AAVTMGFGDP LSPLQSMAAQ RQRALAIMCR VYVGSIYYEL GEDTIRQAFA PFGPIKSIDM SWDSVTMKHK GFAFVEYEVP EAAQLALEQM NSVMLGGRNI KVGRPSNIGQ AQPIIDQLAE EARAFNRIYV ASVHQDLSDD DIKSVFEAFG KIKSCTLARD PTTGKHKGYG FIEYEKAQSS QDAVSSMNLF DLGGQYLRVG KAVTPPMPLL TPATPGGLPP AAAVAAAAAT AKITAQEAVA GAAVLGTLGT PGLVSPALTL AQPLGTLPQA VMAAQAPGVI TGVTPARPPI PVTIPSVGVV NPILASPPTL GLLEPKKEKE EEELFPESER PEMLSEQEHM SISGSSARHM VMQKLLRKQE STVMVLRNMV DPKDIDDDLE GEVTEECGKF GAVNRVIIYQ EKQGEEEDAE IIVKIFVEFS IASETHKAIQ ALNGRWFAGR KVVAEVYDQE RFDNSDLSA

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.
- $\bullet \ \ \text{We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.}$

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

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.

UniProt:

	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:	PUF60
Alternative Name:	PUF60 (PUF60 Products)
Background:	Poly(U)-binding-splicing factor PUF60 (60 kDa poly(U)-binding-splicing factor) (FUSE-binding
	protein-interacting repressor) (FBP-interacting repressor) (Ro-binding protein 1) (RoBP1) (Siah-
	binding protein 1) (Siah-BP1),FUNCTION: DNA- and RNA-binding protein, involved in several
	nuclear processes such as pre-mRNA splicing, apoptosis and transcription regulation. In
	association with FUBP1 regulates MYC transcription at the P2 promoter through the core-TFIIH
	basal transcription factor. Acts as a transcriptional repressor through the core-TFIIH basal
	transcription factor. Represses FUBP1-induced transcriptional activation but not basal
	transcription. Decreases ERCC3 helicase activity. Does not repress TFIIH-mediated
	transcription in xeroderma pigmentosum complementation group B (XPB) cells. Is also involve
	in pre-mRNA splicing. Promotes splicing of an intron with weak 3'-splice site and pyrimidine
	tract in a cooperative manner with U2AF2. Involved in apoptosis induction when overexpressed
	in HeLa cells. Isoform 6 failed to repress MYC transcription and inhibited FIR-induced apoptosis
	in colorectal cancer. Isoform 6 may contribute to tumor progression by enabling increased
	MYC expression and greater resistance to apoptosis in tumors than in normal cells. Modulates
	alternative splicing of several mRNAs. Binds to relaxed DNA of active promoter regions. Binds
	to the pyrimidine tract and 3'-splice site regions of pre-mRNA, binding is enhanced in presence
	of U2AF2. Binds to Y5 RNA in association with RO60. Binds to poly(U) RNA.
	{ECO:0000269 PubMed:10606266, ECO:0000269 PubMed:10882074,
	ECO:0000269 PubMed:11239393, ECO:0000269 PubMed:16452196,
	ECO:0000269 PubMed:16628215, ECO:0000269 PubMed:17579712}.
Molecular Weight:	59.9 kDa
UniDrot:	001111114

Q9UHX1

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.
Expiry Date:	Unlimited (if stored properly)



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