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Datasheet for ABIN3089716 ATF2 Protein (AA 1-505) (Strep Tag)

1 Image



Overview

Quantity:	1 mg
Target:	ATF2
Protein Characteristics:	AA 1-505
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATF2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MKFKLHVNSA RQYKDLWNMS DDKPFLCTAP GCGQRFTNED HLAVHKHKHE MTLKFGPARN
	DSVIVADQTP TPTRFLKNCE EVGLFNELAS PFENEFKKAS EDDIKKMPLD LSPLATPIIR
	SKIEEPSVVE TTHQDSPLPH PESTTSDEKE VPLAQTAQPT SAIVRPASLQ VPNVLLTSSD
	SSVIIQQAVP SPTSSTVITQ APSSNRPIVP VPGPFPLLLH LPNGQTMPVA IPASITSSNV
	HVPAAVPLVR PVTMVPSVPG IPGPSSPQPV QSEAKMRLKA ALTQQHPPVT NGDTVKGHGS
	GLVRTQSEES RPQSLQQPAT STTETPASPA HTTPQTQSTS GRRRRAANED PDEKRRKFLE
	RNRAAASRCR QKRKVWVQSL EKKAEDLSSL NGQLQSEVTL LRNEVAQLKQ LLLAHKDCPV
	TAMQKKSGYH TADKDDSSED ISVPSSPHTE AIQHSSVSTS NGVSSTSKAE AVATSVLTQM
	ADQSTEPALS QIVMAPSSQS QPSGS
	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.

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Product Details

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®):

- 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

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Product Details

	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:	ATF2
Alternative Name:	ATF2 (ATF2 Products)
Background:	Cyclic AMP-dependent transcription factor ATF-2 (cAMP-dependent transcription factor ATF-2)
	(Activating transcription factor 2) (Cyclic AMP-responsive element-binding protein 2) (CREB-2)
	(cAMP-responsive element-binding protein 2) (HB16) (cAMP response element-binding protein
	CRE-BP1),FUNCTION: Transcriptional activator which regulates the transcription of various
	genes, including those involved in anti-apoptosis, cell growth, and DNA damage response.
	Dependent on its binding partner, binds to CRE (cAMP response element) consensus
	sequences (5'-TGACGTCA-3') or to AP-1 (activator protein 1) consensus sequences (5'-
	TGACTCA-3'). In the nucleus, contributes to global transcription and the DNA damage response
	in addition to specific transcriptional activities that are related to cell development, proliferation
	and death. In the cytoplasm, interacts with and perturbs HK1- and VDAC1-containing
	complexes at the mitochondrial outer membrane, thereby impairing mitochondrial membrane
	potential, inducing mitochondrial leakage and promoting cell death. The phosphorylated form
	(mediated by ATM) plays a role in the DNA damage response and is involved in the ionizing
	radiation (IR)-induced S phase checkpoint control and in the recruitment of the MRN complex
	into the IR-induced foci (IRIF). Exhibits histone acetyltransferase (HAT) activity which
	specifically acetylates histones H2B and H4 in vitro (PubMed:10821277). In concert with CUL3
	and RBX1, promotes the degradation of KAT5 thereby attenuating its ability to acetylate and
	activate ATM. Can elicit oncogenic or tumor suppressor activities depending on the tissue or
	cell type. {EC0:0000269 PubMed:10821277, EC0:0000269 PubMed:15916964,
	ECO:0000269 PubMed:18397884, ECO:0000269 PubMed:22304920}.
Molecular Weight:	54.5 kDa
UniProt:	P15336

Pathways:

MAPK Signaling, RTK Signaling, Thyroid Hormone Synthesis, Activation of Innate immune Response, Chromatin Binding, Myometrial Relaxation and Contraction, Synaptic Membrane,

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Tube Formation, Toll-Like Receptors Cascades

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
Restrictions:	needed is the DNA that codes for the desired protein! 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.
Evpin/ Data:	Unlimited (if stored preperly)

Expiry Date: Unlimited (if stored properly)



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

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