

Datasheet for ABIN3092611 FOXA1 Protein (AA 1-472) (Strep Tag)



Overview

Quantity:	250 µg
Target:	FOXA1
Protein Characteristics:	AA 1-472
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FOXA1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MLGTVKMEGH ETSDWNSYYA DTQEAYSSVP VSNMNSGLGS MNSMNTYMTM NTMTTSGNMT
	PASFNMSYAN PGLGAGLSPG AVAGMPGGSA GAMNSMTAAG VTAMGTALSP SGMGAMGAQQ
	AASMNGLGPY AAAMNPCMSP MAYAPSNLGR SRAGGGGDAK TFKRSYPHAK PPYSYISLIT
	MAIQQAPSKM LTLSEIYQWI MDLFPYYRQN QQRWQNSIRH SLSFNDCFVK VARSPDKPGK
	GSYWTLHPDS GNMFENGCYL RRQKRFKCEK QPGAGGGGGS GSGGSGAKGG PESRKDPSGA
	SNPSADSPLH RGVHGKTGQL EGAPAPGPAA SPQTLDHSGA TATGGASELK TPASSTAPPI
	SSGPGALASV PASHPAHGLA PHESQLHLKG DPHYSFNHPF SINNLMSSSE QQHKLDFKAY
	EQALQYSPYG STLPASLPLG SASVTTRSPI EPSALEPAYY QGVYSRPVLN TS
	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 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).
Grade:	custom-made

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Target:	FOXA1
Alternative Name:	FOXA1 (FOXA1 Products)
Background:	Hepatocyte nuclear factor 3-alpha (HNF-3-alpha) (HNF-3A) (Forkhead box protein A1)
	(Transcription factor 3A) (TCF-3A),FUNCTION: Transcription factor that is involved in
	embryonic development, establishment of tissue-specific gene expression and regulation of
	gene expression in differentiated tissues. Is thought to act as a 'pioneer' factor opening the
	compacted chromatin for other proteins through interactions with nucleosomal core histones
	and thereby replacing linker histones at target enhancer and/or promoter sites. Binds DNA with
	the consensus sequence 5'-[AC]A[AT]T[AG]TT[GT][AG][CT]T[CT]-3' (By similarity). Proposed to
	play a role in translating the epigenetic signatures into cell type-specific enhancer-driven
	transcriptional programs. Its differential recruitment to chromatin is dependent on distribution
	of histone H3 methylated at 'Lys-5' (H3K4me2) in estrogen-regulated genes. Involved in the
	development of multiple endoderm-derived organ systems such as liver, pancreas, lung and
	prostate, FOXA1 and FOXA2 seem to have at least in part redundant roles (By similarity).
	Modulates the transcriptional activity of nuclear hormone receptors. Is involved in ESR1-
	mediated transcription, required for ESR1 binding to the NKX2-1 promoter in breast cancer
	cells, binds to the RPRM promoter and is required for the estrogen-induced repression of
	RPRM. Involved in regulation of apoptosis by inhibiting the expression of BCL2. Involved in cell
	cycle regulation by activating expression of CDKN1B, alone or in conjunction with BRCA1.
	Originally described as a transcription activator for a number of liver genes such as AFP,
	albumin, tyrosine aminotransferase, PEPCK, etc. Interacts with the cis-acting regulatory region
	of these genes. Involved in glucose homeostasis. {ECO:0000250,
	ECO:0000269 PubMed:16087863, ECO:0000269 PubMed:16331276,
	ECO:0000269 PubMed:18358809, ECO:0000269 PubMed:19127412,
	ECO:0000269 PubMed:19917725}.
Molecular Weight:	49.1 kDa
JniProt:	P55317
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid
	Hormone Receptor Signaling, Carbohydrate Homeostasis
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

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Application Detail	ls
	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

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