Datasheet for ABIN3096429

ZEB1 Protein (AA 1-1124) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ZEB1
Protein Characteristics:	AA 1-1124
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZEB1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MADGPRCKRR KQANPRRNNV TNYNTVVETN SDSDDEDKLH IVEEESVTDA ADCEGVPEDD LPTDQTVLPG RSSEREGNAK NCWEDDRKEG QEILGPEAQA DEAGCTVKDD ECESDAENEQ NHDPNVEEFL QQQDTAVIFP EAPEEDQRQG TPEASGHDEN GTPDAFSQLL TCPYCDRGYK RFTSLKEHIK YRHEKNEDNF SCSLCSYTFA YRTQLERHMT SHKSGRDQRH VTQSGCNRKF KCTECGKAFK YKHHLKEHLR IHSGEKPYEC PNCKKRFSHS GSYSSHISSK KCISLIPVNG RPRTGLKTSQ CSSPSLSASP GSPTRPQIRQ KIENKPLQEQ LSVNQIKTEP VDYEFKPIVV ASGINCSTPL QNGVFTGGGP LQATSSPQGM VQAVVLPTVG LVSPISINLS DIQNVLKVAV DGNVIRQVLE NNQANLASKE QETINASPIQ QGGHSVISAI SLPLVDQDGT TKIIINYSLE QPSQLQVVPQ NLKKENPVAT NSCKSEKLPE DLTVKSEKDK SFEGGVNDST CLLCDDCPGD INALPELKHY DLKQPTQPPP LPAAEAEKPE SSVSSATGDG NLSPSQPPLK NLLSLLKAYY ALNAQPSAEE LSKIADSVNL PLDVVKKWFE KMQAGQISVQ SSEPSSPEPG KVNIPAKNND

QPQSANANEP QDSTVNLQSP LKMTNSPVLP VGSTTNGSRS STPSPSPLNL SSSRNTQGYL YTAEGAQEEP QVEPLDLSLP KQQGELLERS TITSVYQNSV YSVQEEPLNL SCAKKEPQKD SCVTDSEPVV NVIPPSANPI NIAIPTVTAQ LPTIVAIADQ NSVPCLRALA ANKQTILIPQ VAYTYSTTVS PAVQEPPLKV IQPNGNQDER QDTSSEGVSN VEDQNDSDST PPKKKMRKTE NGMYACDLCD KIFQKSSSLL RHKYEHTGKR PHECGICKKA FKHKHHLIEH MRLHSGEKPY QCDKCGKRFS HSGSYSQHMN HRYSYCKREA EERDSTEQEE AGPEILSNEH VGARASPSQG DSDERESLTR EEDEDSEKEE EEEDKEMEEL QEEKECEKPQ GDEEEEEEEE EVEEEEVEEA ENEGEEAKTE GLMKDDRAES QASSLGQKVG ESSEQVSEEK TNEA

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 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!

Concentration:

Product Details

- 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

Target Details

Target:	ZEB1
Alternative Name:	ZEB1 (ZEB1 Products)
Background:	Zinc finger E-box-binding homeobox 1 (NIL-2-A zinc finger protein) (Negative regulator of IL2) (Transcription factor 8) (TCF-8),FUNCTION: Acts as a transcriptional repressor. Inhibits interleukin-2 (IL-2) gene expression. Enhances or represses the promoter activity of the ATP1A1 gene depending on the quantity of cDNA and on the cell type. Represses E-cadherin promoter and induces an epithelial-mesenchymal transition (EMT) by recruiting SMARCA4/BRG1. Represses BCL6 transcription in the presence of the corepressor CTBP1. Positively regulates neuronal differentiation. Represses RCOR1 transcription activation during neurogenesis. Represses transcription by binding to the E box (5'-CANNTG-3'). In the absence of TGFB1, acts as a repressor of COL1A2 transcription via binding to the E-box in the upstream enhancer region (By similarity). {ECO:0000250|UniProtKB:Q64318, ECO:0000269|PubMed:19935649, ECO:0000269|PubMed:20175752, ECO:0000269|PubMed:20418909}.
Molecular Weight:	124.1 kDa
UniProt:	P37275
Pathways:	Regulation of Muscle Cell Differentiation

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

Application Details

	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. 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