Datasheet for ABIN3122966

SOX17 Protein (AA 1-419) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SOX17
Protein Characteristics:	AA 1-419
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOX17 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSSPDAGYAS DDQSQPRSAQ PAVMAGLGPC PWAESLSPLG DVKVKGEVVA SSGAPAGTSG RAKAESRIRR PMNAFMVWAK DERKRLAQQN PDLHNAELSK MLGKSWKALT LAEKRPFVEE AERLRVQHMQ DHPNYKYRPR RRKQVKRMKR VEGGFLHALV EPQAGALGPE GGRVAMDGLG LPFPEPGYPA GPPLMSPHMG PHYRDCQGLG APALDGYPLP TPDTSPLDGV EQDPAFFAAP LPGDCPAAGT YTYAPVSDYA VSVEPPAGPM RVGPDPSGPA MPGILAPPSA LHLYYGAMGS PAASAGRGFH AQPQQPLQPQ APPPPPQQQH PAHGPGQPSP PPEALPCRDG TESNQPTELL GEVDRTEFEQ YLPFVYKPEM GLPYQGHDCG VNLSDSHGAI SSVVSDASSA VYYCNYPDI **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:

Product Details

- 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:

- 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:	SOX17

Target Details

Alternative Name:	Sox17 (SOX17 Products)
Background:	Transcription factor SOX-17,FUNCTION: Acts as a transcription regulator that binds target promoter DNA and bends the DNA (PubMed:8636240, PubMed:24153254, PubMed:19328208). Binds to the sequences 5'-AACAAT-'3 or 5'-AACAAAG-3' (PubMed:8636240). Modulates transcriptional regulation via WNT3A. Inhibits Wnt signaling. Promotes degradation of activated CTNNB1. Plays a key role in the regulation of embryonic development (PubMed:11973269, PubMed:17655922, PubMed:24153254). Required for normal development of the definitive gut endoderm (PubMed:11973269). Required for normal looping of the embryonic heart tube. Plays an important role in embryonic and postnatal vascular development, including development of arteries (PubMed:24153254). Plays an important role in postnatal angiogenesis, where it is functionally redundant with SOX18 (PubMed:16895970). Required for the generation and maintenance of fetal hematopoietic stem cells, and for fetal hematopoiesis (PubMed:17655922). Probable transcriptional activator in the premeiotic germ cells. {ECO:0000269|PubMed:11973269, ECO:0000269|PubMed:16895970, ECO:0000269|PubMed:17655922, ECO:0000269|PubMed:19328208, ECO:0000269|PubMed:20802155, ECO:0000269|PubMed:24153254, ECO:0000269|PubMed:8636240}., FUNCTION: [Isoform 2]: Has no DNA-binding activity, and does not function as transcriptional activator. {ECO:0000269|PubMed:8636240}.
Molecular Weight:	44.6 kDa
UniProt:	Q61473

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

Application Details

	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