Datasheet for ABIN3096432

Znf423 Protein (AA 1-1284) (Strep Tag)

Go to Product page

1 Image

Overview

Quantity:	1 mg
Target:	Znf423
Protein Characteristics:	AA 1-1284
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Znf423 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MHKKRVEEGE ASDFSLAWDS SVTAAGGLEG EPECDQKTSR ALEDRNSVTS QEERNEDDED MEDESIYTCD HCQQDFESLA DLTDHRAHRC PGDGDDDPQL SWVASSPSSK DVASPTQMIG DGCDLGLGEE EGGTGLPYPC QFCDKSFIRL SYLKRHEQIH SDKLPFKCTY CSRLFKHKRS RDRHIKLHTG DKKYHCHECE AAFSRSDHLK IHLKTHSSSK PFKCTVCKRG FSSTSSLQSH MQAHKKNKEH LAKSEKEAKK DDFMCDYCED TFSQTEELEK HVLTRHPQLS EKADLQCIHC PEVFVDENTL LAHIHQAHAN QKHKCPMCPE QFSSVEGVYC HLDSHRQPDS SNHSVSPDPV LGSVASMSSA TPDSSASVER GSTPDSTLKP LRGQKKMRDD GQGWTKVVYS CPYCSKRDFN SLAVLEIHLK TIHADKPQQS HTCQICLDSM PTLYNLNEHV RKLHKNHAYP VMQFGNISAF HCNYCPEMFA DINSLQEHIR VSHCGPNANP SDGNNAFFCN QCSMGFLTES SLTEHIQQAH CSVGSAKLES PVVQPTQSFM EVYSCPYCTN SPIFGSILKL TKHIKENHKN IPLAHSKKSK AEQSPVSSDV EVSSPKRQRL SASANSISNG EYPCNQCDLK FSNFESFQTH LKLHLELLLR KQACPQCKED FDSQESLLQH LTVHYMTTST HYVCESCDKQ FSSVDDLQKH LLDMHTFVLY

HCTLCQEVFD SKVSIQVHLA VKHSNEKKMY RCTACNWDFR KEADLQVHVK HSHLGNPAKA HKCIFCGETF STEVELQCHI TTHSKKYNCK FCSKAFHAII LLEKHLREKH CVFDAATENG TANGVPPMAT KKAEPADLQG MLLKNPEAPN SHEASEDDVD ASEPMYGCDI CGAAYTMEVL LQNHRLRDHN IRPGEDDGSR KKAEFIKGSH KCNVCSRTFF SENGLREHLQ THRGPAKHYM CPICGERFPS LLTLTEHKVT HSKSLDTGTC RICKMPLQSE EEFIEHCQMH PDLRNSLTGF RCVVCMQTVT STLELKIHGT FHMQKLAGSS AASSPNGQGL QKLYKCALCL KEFRSKQDLV KLDVNGLPYG LCAGCMARSA NGQVGGLAPP EPADRPCAGL RCPECSVKFE SAEDLESHMQ VDHRDLTPET SGPRKGTQTS PVPRKKTYQC IKCQMTFENE REIQIHVANH MIEEGINHEC KLCNQMFDSP AKLLCHLIEH SFEGMGGTFK CPVCFTVFVQ ANKLQQHIFA VHGQEDKIYD CSQCPQKFFF QTELQNHTMS QHAQ

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 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 -

Product Details

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 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:	Znf423
Alternative Name:	ZNF423 (Znf423 Products)
Background:	Zinc finger protein 423 (Olf1/EBF-associated zinc finger protein) (hOAZ) (Smad- and Olf-interacting zinc finger protein),FUNCTION: Transcription factor that can both act as an activator or a repressor depending on the context. Plays a central role in BMP signaling and olfactory neurogenesis. Associates with SMADs in response to BMP2 leading to activate transcription of BMP target genes. Acts as a transcriptional repressor via its interaction with EBF1, a transcription factor involved in terminal olfactory receptor neurons differentiation, this interaction preventing EBF1 to bind DNA and activate olfactory-specific genes. Involved in olfactory neurogenesis by participating in a developmental switch that regulates the transition from differentiation to maturation in olfactory receptor neurons. Controls proliferation and differentiation of neural precursors in cerebellar vermis formation. {ECO:0000269|PubMed:10660046}.

Target Details

Molecular Weight:	144.6 kDa
UniProt:	Q2M1K9

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

