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Datasheet for ABIN3095843
TAF5 Protein (AA 1-800) (Strep Tag)

Overview

Quantity:	1 mg
Target:	TAF5
Protein Characteristics:	AA 1-800
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TAF5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MAALAEQTE VAVKLEPEGP PTLPPQAGD GAGEGSGGTT NNGPNGGGGN VAASSSTGGD
GGTPKPTVAV SAAAPAGAAP VPAAAPDAGA PHDRQTL LAV LQFLRQSKLR EAEELRREA
GLLEEAVAGS GAPGEVDSAG AEVTSALLSR VTASAPGPA PDPPGTGASG ATVVSGSASG
PAAPGKVGSV AVEDQPDVSA VLSAYNQGD PTMYEEYYSG LKHFIECSLD CHRAELSQLF
YPLFVHMYLE LVYNQHENEK KSF FEKFHGD QECYYQDDL RVLSSLTKKEH MKGNETMLDF
RTSKFVLRIS RDSYQLLRH LQEKQNNQIW NIVQEHL YID IFDGMPSKQ QIDAMVGS LA
GEAKREANKS KVFFGLLKEP EIEVPLDDED EEEGENEEGKP KKKKPKKDSI GSKSKKQDPN
APPQNRIP LP ELKDSKLDK IMNMKETT KR VRLGPDCLPS ICFYTF LNAY QGLTAVDVTD
DSSLIAGGFA DSTVRVWSVT PKKLRSVKQA SDLSLIDKES DDVLERIMDE KTASELKILY
GHSGPVYGAS FSPDRNYLLS SSEDGTVRLW SLQTF TCLVG YKGHNYPVWD TQFSPYGYFF
VSGGHDRVAR LWATDHYQPL RIFAGHLADV NCTRFHPNSN YVATGSADRT VRLWDVNLGN
CVRIFTGHKG PIHSLTFSPN GRFLATGATD GRVLLWDIGH GLMVGELKGH TDTVCSLRFS

RDGEILASGS MDNTVRLWDA IKAFEDLETD DFTTATGHIN LPENSQELLL GTYMTKSTPV
VHLHFTRRNL VLAAGAYSPQ

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 - 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.

Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">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:	TAF5
Alternative Name:	TAF5 (TAF5 Products)
Background:	<p>Transcription initiation factor TFIID subunit 5 (Transcription initiation factor TFIID 100 kDa subunit) (TAF(II)100) (TAFII-100) (TAFII100),FUNCTION: The TFIID basal transcription factor complex plays a major role in the initiation of RNA polymerase II (Pol II)-dependent transcription (PubMed:33795473). TFIID recognizes and binds promoters with or without a TATA box via its subunit TBP, a TATA-box-binding protein, and promotes assembly of the pre-initiation complex (PIC) (PubMed:33795473). The TFIID complex consists of TBP and TBP-associated factors (TAFs), including TAF1, TAF2, TAF3, TAF4, TAF5, TAF6, TAF7, TAF8, TAF9, TAF10, TAF11, TAF12 and TAF13 (PubMed:33795473, PubMed:8758937, PubMed:8942982, PubMed:9045704). The TFIID complex structure can be divided into 3 modules TFIID-A, TFIID-B, and TFIID-C (PubMed:33795473). TAF5 is involved in two modules of TFIID, in TFIID-A together with TAF3 and TBP, and in TFIID-B with TAF8 (PubMed:33795473). Involved in contacts between TFIID and TFIIF in the PIC (PubMed:33795473). {ECO:0000269 PubMed:33795473, ECO:0000269 PubMed:8758937, ECO:0000269 PubMed:8942982, ECO:0000269 PubMed:9045704}.</p>
Molecular Weight:	86.8 kDa
UniProt:	Q15542

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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Application Details

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)