Datasheet for ABIN3095805

TEX14 Protein (AA 1-1497) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	TEX14
Protein Characteristics:	AA 1-1497
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TEX14 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MSRAVRLPVP CPVQLGTLRN DSLEAQLHEY VKQGNYVKVK KILKKGIYVD AVNSLGQTAL FVAALLGLRK FVDVLVDYGS DPNHRCFDGS TPVHAAAFSG NQWILSKLLD AGGDLRLHDE RGQNPKTWAL TAGKERSTQI VEFMQRCASH MQAIIQGFSY DLLKKIDSPQ RLVYSPSWCG GLVQGNPNGS PNRLLKAGVI SAQNIYSFGF GKAMPWFQFY LTGATQMAYL GSLPVIGEKE VIQADDEPTF SFFSGPYMVM TNLVWNGSRV TVKELNLPTH PHCSRLRLAD LLIAEQEHSS KLRHPYLLQL MAVCLSQDLE KTRLVYERIT IGTLFSVLHE RRSQFPVLHM EVIVHLLLQI SDALRYLHFQ GFIHRSLSSY AVHIISPGEA RLTNLEYMLE SEDRGVQRDL TRVPLPTQLY NWAAPEVILQ KAATVKSDIY SFSMIMQEIL TDDIPWKGLD GSVVKKAVVS GNYLEADVRL PKPYYDIVKS GIHVKQKDRT MNLQDIRYIL KNDLKDFTGA QRTQPTESPR VQRYGLHPDV NVYLGLTSEH PRETPDMEII ELKEMGSQPH SPRVHSLFTE GTLDPQAPDP CLMARETQNQ DAPCPAPFMA EEASSPSTGQ PSLCSFEINE IYSGCLILED DIEEPPGAAS SLEADGPNQV DELKSMEEEL DKMEREACCF GSEDESSSKA ETEYSFDDWD WQNGSLSSLS LPESTREAKS

NLNNMSTTEE YLISKCVLDL KIMQTIMHEN DDRLRNIEQI LDEVEMKQKE QEERMSLWAT SREFTNAYKL PLAVGPPSLN YIPPVLQLSG GQKPDTSGNY PTLPRFPRML PTLCDPGKQN TDEQFQCTQG AKDSLETSRI QNTSSQGRPR ESTAQAKATQ FNSALFTLSS HRQGPSASPS CHWDSTRMSV EPVSSEIYNA ESRNKDDGKV HLKWKMEVKE MAKKAATGQL TVPPWHPQSS LTLESEAENE PDALLQPPIR SPENTDWQRV IEYHRENDEP RGNGKFDKTG NNDCDSDQHG RQPRLGSFTS IRHPSPRQKE QPEHSEAFQA SSDTLVAVEK SYSHQSMQST CSPESSEDIT DEFLTPDGEY FYSSTAQENL ALETSSPIEE DFEGIQGAFA QPQVSGEEKF QMRKILGKNA EILPRSQFQP VRSTEDEQEE TSKESPKELK EKDISLTDIQ DLSSISYEPD SSFKEASCKT PKINHAPTSV STPLSPGSVS SAASQYKDCL ESITFQVKTE FASCWNSQEF IQTLSDDFIS VRERAKKLDS LLTSSETPPS RLTGLKRLSS FIGAGSPSLV KACDSSPPHA TQRRSLPKVE AFSQHHIDEL PPPSQELLDD IELLKQQQGS STVLHENTAS DGGGTANDQR HLEEQETDSK KEDSSMLLSK ETEDLGEDTE RAHSTLDEDL ERWLQPPEES VELQDLPKGS ERETNIKDQK VGEEKRKRED SITPERRKSE GVLGTSEEDE LKSCFWKRLG WSESSRIIVL DQSDLSD

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

Product Details

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.

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:	TEX14
Alternative Name:	TEX14 (TEX14 Products)
Background:	Inactive serine/threonine-protein kinase TEX14 (Protein kinase-like protein SgK307) (Sugen kinase 307) (Testis-expressed sequence 14) (Testis-expressed sequence 14 protein),FUNCTION: Required both for the formation of intercellular bridges during meiosis and for kinetochore-microtubule attachment during mitosis. Intercellular bridges are evolutionarily conserved structures that connect differentiating germ cells and are required for spermatogenesis and male fertility. Acts by promoting the conversion of midbodies into intercellular bridges via its interaction with CEP55: interaction with CEP55 inhibits the interaction between CEP55 and PDCD6IP/ALIX and TSG101, blocking cell abscission and

Target Details

	leading to transform midbodies into intercellular bridges. Also plays a role during mitosis: recruited to kinetochores by PLK1 during early mitosis and regulates the maturation of the outer kinetochores and microtubule attachment. Has no protein kinase activity in vitro (By similarity). {ECO:0000250}.
Molecular Weight:	167.9 kDa
UniProt:	Q8IWB6
Pathways:	Maintenance of Protein Location

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.

Handling

Expiry Date:	Unlimited (if stored properly)

Images

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

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