

Datasheet for ABIN3091996

CTIF/KIAA0427 Protein (AA 1-598) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	CTIF/KIAA0427 (CTIF)
Protein Characteristics:	AA 1-598
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTIF/KIAA0427 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MENSSAASAS SEAGSSRSQE IEELERFIDS YVLEYQVQGL LADKTEGDGE SERTQSHISQ</p> <p>WTADCSEPLD SSCSFSRGRA PPQQNGSKDN SLDMLGTDIW AANTFDSFSG ATWDLQPEKL</p> <p>DFTQFHRKVR HTPKQPLPHI DREGCGKGL EDGDGINLND IEKVLPWQGG YHPMPHEVEI</p> <p>AHTKKLFRRR RNDRRRQQR PGGNKPQHG DHQPGSAKHN RDHQKSYQGG SAPHPSGRPT</p> <p>HHGYSQNRWW HHGNMKHPPG DKGEAGAHN AKETMTIENP KLEDTAGDTG HSSLEAPRSP</p> <p>DTLAPVASER LPPQQSGGPE VETKRKDSIL PERIGERPKEI TLLQSSKDR LRRRLKEKDEV</p> <p>AVETTPQQN KMDKLEILN SMRNNSDVD TKLTTFMEEA QNSTNSEEML GEIVRTIYQK</p> <p>AVSDRSFAFT AAKLCDKMAL FMVEGTKFRS LLLNMLQKDF TVREELQQQD VERWLGFITF</p> <p>LCEVFGTMRS STGEPFRVLV CPIYTCLREL LQSQDVKEDA VLCCSMELQS TGRLLLEQLP</p> <p>EMMTELLASA RDKMLCPSES MLTRSLLEEV IELHANSWNP LTPPITQYYN RTIQKLTA</p> <p>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</p>
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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.

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.

Product Details

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:	CTIF/KIAA0427 (CTIF)
Alternative Name:	CTIF (CTIF Products)
Background:	CBP80/20-dependent translation initiation factor,FUNCTION: Specifically required for the pioneer round of mRNA translation mediated by the cap-binding complex (CBC), that takes place during or right after mRNA export via the nuclear pore complex (NPC). Acts via its interaction with the NCBP1/CBP80 component of the CBC complex and recruits the 40S small subunit of the ribosome via eIF3. In contrast, it is not involved in steady state translation, that takes place when the CBC complex is replaced by cytoplasmic cap-binding protein eIF4E. Also required for nonsense-mediated mRNA decay (NMD), the pioneer round of mRNA translation mediated by the cap-binding complex playing a central role in nonsense-mediated mRNA decay (NMD). {ECO:0000269 PubMed:19648179}.
Molecular Weight:	67.6 kDa
UniProt:	O43310

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>

Application Details

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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)

Images



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