Datasheet for ABIN3091954

CEP135 Protein (AA 1-1140) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	CEP135
Protein Characteristics:	AA 1-1140
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CEP135 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MTTAVERKYI NIRKRLDQLG YRQTLTVECL PLVEKLFSDL VHTTESLRQS KLSAVKAEKE SANFDFVLEP YKLENARLSR ENNELYLELM KLREHSDQHV KELKTSLKKC ARETADLKFL NNQYAHKLKL LEKESKAKNE RIQQLQEKNL HAVVQTPGGK KRSIAFRRQR MQIDEPVPPS EVSSYPVPQP DDPYIADLLQ VADNRIQELQ QEVHQLQEKL AMMESGVRDY SKQIELRERE IERLSVALDG GRSPDVLSLE SRNKTNEKLI AHLNIQVDFL QQANKDLEKR IRELMETKET VTSEVVNLSN KNEKLCQELT EIDQLAQQLE RHKEEVLETA DKELGEAKKE IKRKLSEMQD LEETMAKLQL ELNLCQKEKE RLSDELLVKS DLETVVHQLE QEKQRLSKKV ESFAVTERQL TLEVERMRLE HGIKRRDRSP SRLDTFLKGI EEERDYYKKE LERLQHIIQR RSCSTSYSAR EKSSIFRTPE KGDYNSEIHQ ITRERDELQR MLERFEKYME DIQSNVKLLT AERDKLSVLY NEAQEELSAL RKESTQTTAP HNIVSLMEKE KELALSDLRR IMAEKEALRE KLEHIEEVSL FGKSELEKTI EHLTCVNHQL ESEKYELKSK VLIMKETIES LENKLKVQAQ KFSHVAGDSS HQKTEVNSLR IVNEQLQRSV DDYQHRLSIK RGELESAQAQ IKILEEKIDE LNLKMTSQDE

EAHVMKKTIG VIDKEKDFLQ ETVDEKTEKI ANLQENLANK EKAVAQMKIM ISECESSVNQ LKETLVNRDR EINSLRRQLD AAHKELDEVG RSREIAFKEN RRLQDDLATM ARENQEISLE LEAAVQEKEE MKSRVHKYIT EVSRWESLMA AKEKENQDLL DRFQMLHNRA EDWEVKAHQA EGESSSVRLE LLSIDTERRH LRERVELLEK EIQEHINAHH AYESQISSMA KAMSRLEEEL RHQEDEKATV LNDLSSLREL CIKLDSGKDI MTQQLNSKNL EFERVVVELE NVKSESDLLK KQLSNERHTV KNLESLLATN RDKEFHSHLT SHEKDTEIQL LKEKLTLSES KLTSQSRENT MLRAKVAQLQ TDYDALKRQI STERYERERA IQEMRRHGLA TPPLSSTLRS PSHSPEHRNV

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:

Product Details

- 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:	CEP135
Alternative Name:	CEP135 (CEP135 Products)
Background:	Centrosomal protein of 135 kDa (Cep135) (Centrosomal protein 4),FUNCTION: Centrosomal microtubule-binding protein involved in centriole biogenesis (PubMed:27477386). Acts as a scaffolding protein during early centriole biogenesis. Required for the targeting of centriole satellite proteins to centrosomes such as of PCM1, SSX2IP and CEP290 and recruitment of WRAP73 to centrioles. Also required for centriole-centriole cohesion during interphase by acting as a platform protein for CEP250 at the centriole. Required for the recruitment of CEP295 to the proximal end of new-born centrioles at the centriolar microtubule wall during early S phase in a PLK4-dependent manner (PubMed:27185865). {ECO:0000269|PubMed:17681131, ECO:0000269|PubMed:18851962, ECO:0000269|PubMed:26675238, ECO:0000269|PubMed:27185865, ECO:0000269|PubMed:27477386}.
Molecular Weight:	133.5 kDa
UniProt:	Q66GS9
Pathways:	M Phase, SARS-CoV-2 Protein Interactome

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