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CEP63 Protein (AA 1-703) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	CEP63
Protein Characteristics:	AA 1-703
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CEP63 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Sequence:

MEALLEGIQN RGHGGGFLTS CEAELQELMK QIDIMVAHKK SEWEGRTHAL ETCLKIREQE LKSLRSQLDV THKEVGMLHQ QVEEHEKIKQ EMTMEYKQEL KKLHEELCIL KRSYEKLQKK QMREFRGNTK NHREDRSEIE RLTAKIEEFR QKSLDWEKQR LIYQQQVSSL EAQRKALAEQ SEIIQAQLVN RKQKLESVEL SSQSEIQHLS SKLERANDTI CANELEIERL TMRVNDLVGT SMTVLQEQQQ KEEKLRESEK LLEALQEEKR ELKAALQSQE NLIHEARIQK EKLQEKVKAT NTQHAVEAIR PREESLAEKK YTSQGQGDLD SVLSQLNFTH TSEDLLQAEV TCLEGSLESV SATCKQLSQE LMEKYEELKR MEAHNNEYKA EIKKLKEQIL QGEQSYSSAL EGMKMEISHL TQELHQRDIT IASTKGSSSD MEKRLRAEMQ KAEDKAVEHK EILDQLESLK LENRHLSEMV MKLELGLHEA KEISLADLQE NYIEALNKLV SENQQLQKDL MNTKSQLEIS TQMCKKQNDR IFKPTHSRTT EFKNTEFKPT HGQHRHDGIK TEHYKTDLHS PRGQASDSIN PMSRVLSPLS PQISPCSSTR SLTSYSLCKT HSLPSALDTN EANFSDTMSE SMNDQEEFIS SCSLPVSPLG SIATRFLEEE ELRSHHILER LDAHIEELKR ESEKTVRQFT ALK

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 posttranslational 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.
- 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)

Target Details

Target:

CEP63

Alternative Name:

CEP63 (CEP63 Products)

Background:

Centrosomal protein of 63 kDa (Cep63),FUNCTION: Required for normal spindle assembly (PubMed:21406398, PubMed:21983783, PubMed:26297806, PubMed:35793002). Plays a key role in mother-centriole-dependent centriole duplication, the function seems also to involve CEP152, CDK5RAP2 and WDR62 through a stepwise assembled complex at the centrosome that recruits CDK2 required for centriole duplication (PubMed:21983783, PubMed:26297806). Reported to be required for centrosomal recruitment of CEP152, however, this function has been questioned (PubMed:21983783, PubMed:26297806). Also recruits CDK1 to centrosomes (PubMed:21406398). Plays a role in DNA damage response (PubMed:21406398). Following DNA damage, such as double-strand breaks (DSBs), is removed from centrosomes, this leads to the inactivation of spindle assembly and delay in mitotic progression (PubMed:21406398). Promotes stabilization of FXR1 protein by inhibiting FXR1 ubiquitination (PubMed:35989368). [ECO:0000269|PubMed:21406398, ECO:0000269|PubMed:21983783, ECO:0000269|PubMed:25989368].

Molecular Weight:

81.3 kDa

UniProt:

Q96MT8

Pathways:

M Phase

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.

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)