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NCAPH2 Protein (AA 1-605) (Strep Tag)



Image



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Overview

Quantity:	1 mg
Target:	NCAPH2
Protein Characteristics:	AA 1-605
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NCAPH2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MEDVEARFAH LLQPIRDLTK NWEVDVAAQL GEYLEELDQI CISFDEGKTT MNFIEAALLI
QGSACVYSKK VEYLYSLVYQ ALDFISGKRR AKQLSSVQED RANGVASSGV PQEAENEFLS
LDDFPDSRTN VDLKNDQTPS EVLIIPLLPM ALVAPDEMEK NNNPLYSRQG EVLASRKDFR
MNTCVPHPRG AFMLEPEGMS PMEPAGVSPM PGTQKDTGRT EEQPMEVSVC RSPVPALGFS
QEPGPSPEGP MPLGGGEDED AEEAVELPEA SAPKAALEPK ESRSPQQSAA LPRRYMLRER
EGAPEPASCV KETPDPWQSL DPFDSLESKP FKKGRPYSVP PCVEEALGQK RKRKGAAKLQ
DFHQWYLAAY ADHADSRRLR RKGPSFADME VLYWTHVKEQ LETLRKLQRR EVAEQWLRPA
EEDHLEDSLE DLGAADDFLE PEEYMEPEGA DPREAADLDA VPMSLSYEEL VRRNVELFIA
TSQKFVQETE LSQRIRDWED TVQPLLQEQE QHVPFDIHTY GDQLVSRFPQ LNEWCPFAEL
VAGQPAFEVC RSMLASLQLA NDYTVEITQQ PGLEMAVDTM SLRLLTHQRA HKRFQTYAAP
SMAOP

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

1 Toduct Details	
	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:	NCAPH2
Alternative Name:	NCAPH2 (NCAPH2 Products)
Background:	Condensin-2 complex subunit H2 (Chromosome-associated protein H2) (hCAP-H2) (Kleisinbeta) (Non-SMC condensin II complex subunit H2),FUNCTION: Regulatory subunit of the condensin-2 complex, a complex that seems to provide chromosomes with an additional level of organization and rigidity and in establishing mitotic chromosome architecture (PubMed:14532007). May promote the resolution of double-strand DNA catenanes (intertwines) between sister chromatids. Condensin-mediated compaction likely increases tension in catenated sister chromatids, providing directionality for type II topoisomerase-mediated strand exchanges toward chromatid decatenation. Required for decatenation of chromatin bridges at anaphase. Early in neurogenesis, may play an essential role to ensure accurate mitotic chromosome condensation in neuron stem cells, ultimately affecting neuron pool and cortex size (By similarity). Seems to have lineage-specific role in T-cell development (PubMed:14532007). {ECO:0000250 UniProtKB:Q8BSP2, ECO:0000269 PubMed:14532007}.
Molecular Weight:	68.2 kDa
UniProt:	Q6IBW4
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)

Images

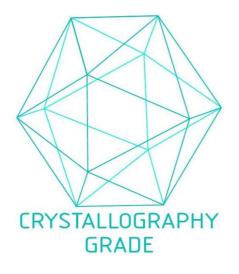


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process