

Datasheet for ABIN3091758

NCAPG Protein (AA 1-1015) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	NCAPG
Protein Characteristics:	AA 1-1015
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NCAPG protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MGAERRLLSI KEAFRLAQQP HQNQAKLVVA LSRTYRTMDD KTVFHEEFIH YLKVVMVVYK</p> <p>REPAVERVIE FAAKFVTSFH QSDMEDDEEE EDGGLLNLYL TFLKSHEAN SNAVRFRVCL</p> <p>LINKLLGSMP ENAQIDDDVF DKINKAMLIR LKDKIPNVRI QAVLALSRLQ DPKDDECPVV</p> <p>NAYATLIEND SNPEVRRRAVL SCIAPSAKTL PKIVGRTKDV KEAVRKLAYQ VLAEKVHMRA</p> <p>MSIAQRVMLL QQGLNDRSDA VKQAMQKHLL QGWLRFSEGN ILELLHRLDV ENSSEVAVSV</p> <p>LNALFSITPL SELVGLCKNN DGRKLIPVET LTPEIALYWC ALCEYLKSKG DEGEEFLEQI</p> <p>LPEPVVYADY LLSYIQSIPV VNEEHRGDFS YIGNLMTKEF IGQQLILIIK SLDTSEEGGR KKLLAVLQEI</p> <p>LILPTIPL VSFLVERLLH IIIDDNKRTQ IVTEIIEIR APIVTGVVNN DPADVRRKKEL KMAEIKVKLI</p> <p>EAKEALNCI TLQDFNRASE LKEEIKALED ARINLLKETE QLEIKEVHIE KNDATLQKC</p> <p>LILCYELLKQ MSISTGLSAT MNGIIESLIL PGIISHPVV RNLAVLCLGC CGLQNQDFAR</p> <p>KHFVLLQLVL QIDDVTIKIS ALKAIFDQLM TFGIEPFKTK KIKTLHCEGT EINSDDDEQES</p>

KEVEETATAK NVLKLLSDFL DSEVSELRTG AAEGLAklMF SGLLVSSRIL SRLILLWYNP
VTEEDVQLRH CLGVFFPVFA YASRTNQEcf EEAFPLTLQT LANAPASSPL AEIDITNVAE
LLVDLTRPSG LNPQAKTSQD YQALTVHDNL AMKICNEILT SPCSPEIRVY TKALSSLELS
SHLAKDLLVL LNEILEQVKD RTCLRALEKI KIQLEKGNKE FGDQAEAAQD ATLTTTTTFQN
EDEKNKEVYM TPLRGVKATQ ASKSTQLKTN RGQRKVTVSA RTNRRQCQTAE ADSESDHEVP
EPESEMKMRL PRRAKTAALE KSKLNLAQFL NEDLS

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.

Product Details

- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: NCAPG

Alternative Name: NCAPG ([NCAPG Products](#))

Background: Condensin complex subunit 3 (Chromosome-associated protein G) (Condensin subunit CAP-G) (hCAP-G) (Melanoma antigen NY-MEL-3) (Non-SMC condensin I complex subunit G) (XCAP-G homolog), FUNCTION: Regulatory subunit of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases. {ECO:0000269|PubMed:11136719}.

Molecular Weight: 114.3 kDa

UniProt: [Q9BPX3](#)

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.

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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.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months