

Datasheet for ABIN3090976

Cyclin B3 Protein (CCNB3) (AA 1-1395) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	Cyclin B3 (CCNB3)
Protein Characteristics:	AA 1-1395
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cyclin B3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MLLPLPPQSS KVPVKKSQSS KIVPSHHDPS EKTGENCQTK ISPSSLQESP SSLQGALKKR</p> <p>SAFEDLTNAS QCQPVPQPKKE ANKEFVKVVS KKINRNTHAL GLAKKNKRNL KWHKLEVTPV</p> <p>VASTTVVPNI MEKPLILDIS TTSKTPNTEE ASLFRKPLVL KEEPTIEDET LINKSLSLKK</p> <p>CSNHEEVSL EKLQPLQEE DSDDAFVIEP MTFKKTHKTE EAAITKKTLS LKKKMCASQR</p> <p>KQSCQEE SLA VQDVNMEEDS FFMESMSFCK KPKTEESIPT HKLSSLKKKC TIYGKICHFR</p> <p>KPPVLQTTIC GAMSSIKKPT TEKETFQEL SVLQEKHTE HEMSILKKSL ALQKTNFKED</p> <p>SLVKESLAFK KKPSTEEAIM MPVILKEQCM TEGKRSRLKP LVLQEITSGE KSLIMKPLSI</p> <p>KEKPSTEKES FSQEPSALQK KHTTQEEVSI LKEPSSLLKS PTEESPFDEA LAFTKKCTIE</p> <p>EAPPTKKPLI LKRKHATQGT MSHLKKPLIL QTTSGEKSLI KEPLPFKEEK VSLKKKCTTQ</p> <p>EMMSICPELL DFQDMIGEDK NSFFMEPMSF RKNPTTEETV LTKTSLSLQE KKITQGMKSH</p> <p>LKKPLVLQKI TSEESFYKK LLPFKMKSTT EEKFLSQEPS ALKEKHTTLQ EVSLSKESLA</p>

IQEKATTEEE FSQELFSLHV KHTNKSGSLF QEALVLQEK DAEEDSLKNL LALQEKSTME
EESLINKLLA LKEELSAEAA TNIQTQLSLK KKSTSHGKVF FLKKQLALNE TINEEEFNLK
QPLALEGYPS IAEGETLFFK LLAMQEEPSI EKEAVLKEPT IDTEAHFKEP LALQEEPSTE
KEAVLKEPSV DTEAHFKETL ALQEKPSIEQ EALFKRHSAL WEKPSTKET IFKESLDLQE
KPSIKKETLL KKPLALKMST INEAVLFEDM IALNEKPTTG KELSFKLEPLA LQESPTYKED
TFLKTLLVPQ VGTSPNVSS APESITSKSS IATMTSVGKS GTINEAFLFE DMITLNEKPT
TGKELSFKEP LALQESPTCK EDTFLETFLI PQIGTSPYVF STTPESITEK SSIATMTSVG
KSRTTTESSA CESASDKPVS PQAAGTPKEI TPREDIDEDS SDPSFNPMYA KEIFSVMKER
EEQFILTDM NRQIEITSDM RAILVDWLVE VQVSFEMTHE TLYLAVKLVD LYLMKAVCKK
DKLQLLGATA FMIAAKFEEH NSPRVDDFVY ICDDNYQRSE VLSMEINILN VLKCDINIPI
AYHFLRRYAR CIHTNMKTLT LSRVICEMTL QEYHYVQEKA SKLAAASLLL ALYMKKLGWY
VPFLEHYSY SISLHPLVR QLNKLLTFSS YDSLKAVYYK YSHPVFFEVA KIPALDMLKL
EEILNCDCEA QGLVL

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

Product Details

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.
- 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:	Cyclin B3 (CCNB3)
Alternative Name:	CCNB3 (CCNB3 Products)
Background:	G2/mitotic-specific cyclin-B3,FUNCTION: Cyclins are positive regulatory subunits of the cyclin-dependent kinases (CDKs), and thereby play an essential role in the control of the cell cycle, notably via their destruction during cell division. Its tissue specificity suggest that it may be required during early meiotic prophase I. {ECO:0000269 PubMed:12185076}.
Molecular Weight:	157.9 kDa
UniProt:	Q8WWL7
Pathways:	Cell Division Cycle , Chromatin Binding

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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

Application Details

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. 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