

Datasheet for ABIN3091815

Claspin Protein (CLSPN) (AA 1-1339) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	Claspin (CLSPN)
Protein Characteristics:	AA 1-1339
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Claspin protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MTGEVGSEVH LEINDPNVIS QEEADSPSDS GQGSYETIGP LSEGDSDEEI FVSKKLKNRK VLQSDSETE DTNASPEKTT YDSAEENKE NLYAGKNTKI KRIYKTVADS DESYMEKSLY QENLEAQVKP CLELSLQSGN STDFTTDRKS SKKHIHDKEG TAGKAKVKSK RRLEKEERKM EKIRQLKKKE TKNQEDDVEQ PFNDSGCLLV DKDLFETGLE DENNSPLEDE ESLESIRAAV KNKVKKHKKK EPSLESGVHS FEEGSELSKG TTRKERKAAR LSKEALKQLH SETQRLIRES ALNLPYHMPE NKTIHDFFR KPRPTCHGNA MALLKSSKYQ SSHHKEIIDT ANTTEMNSDH HSGKSEQTTG AENEVETNAL PVVSKETQII TGSDSCRKD LVKNEELEIQ EKQKQSDIRP SPGDSSVLQQ ESNFLGNNHS EECQVGGLVA FEPHALEGEQ PQNPEETDEK VEEPEQQNKS SAVGPPKVR RFTLDRKQL GVDVSIKPLR GADEDSFVIL EPETNRELEA LKQRFWKHAN PAAKPRAGQT VNVNVIVKDM GTDGKEELKA DVVPVTLAPK KLDGASHTKP GEKLQVLKAK LQEAMKLRRF EERQKRQALF KLDNEDGFEE EEEEEEMTD ESEEDGEKV EKEEKEEEE EEEEKEEEE EEGNQETAEF LLSSEEIETK DEKEMDKENN DGSSEIGKAV GFLSVPKSL
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SDSTLLLFKD SSSKMGYFPT EEKSETDENS GKQPSKLDDE DSCSLLTKE SHNSSFELIG
STIPSYQPCN RQTGRGTSFF PTAGGFRSPS PGLFRASLVS SASKSSGKLS EPSLPIEDSQ
DLYNASPEPK TLFLGAGDFQ FCLEDDTQSQ LLDADGFLNV RNHRNQYQAL KPRLPLASMD
ENAMDANMDE LLDLCTGKFT SQAELHLPRK SDKKENMEEL LNLCSGKFTS QDASTPASSE
LNKQKESSM GDPMEELAL CSGSFPTDKE EEEEEEEFGD FRLVSNDNEF DSDEDEHSDS
GNDLALEDHE DDDEEELLKR SEKLKRQMRK RKYLEDEAEV SGSDVGSEDE YDGEEIDEYE
EDVIDEVLPS DEELQSQIKK IHMKTMLDDD KRQLRLYQER YLADGDLHSD GPGRMRKFRW
KNIDDASQMD LFHRDSDDDQ TEEQLDESEA RWRKERIERE QWLRDMAQQG KITAEIIIIII
GEDSQFMILA KKVTAALQK NASRPMVIQE SKSLLRNPFE AIRPGSAQQV KTGSLLNQPK
AVLQKLAALS DHNPSAPRNS RNFVFHTLSP VKAEAAKESS KSQVKKRGPS FMTSPSPKHL
KTDDSTSGLT RSIFKYLE

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human CLSPN Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

Product Details

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: Claspin (CLSPN)

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

Background: Required for checkpoint mediated cell cycle arrest in response to inhibition of DNA replication or to DNA damage induced by both ionizing and UV irradiation. Adapter protein which binds to BRCA1 and the checkpoint kinase CHEK1 and facilitates the ATR-dependent phosphorylation of both proteins. Can also bind specifically to branched DNA structures and may associate with S-phase chromatin following formation of the pre-replication complex (pre-RC). This may indicate a role for this protein as a sensor which monitors the integrity of DNA replication forks.
{ECO:0000269|PubMed:12766152, ECO:0000269|PubMed:15096610, ECO:0000269|PubMed:15190204, ECO:0000269|PubMed:15226314, ECO:0000269|PubMed:15707391}.

Molecular Weight: 152.0 kDa Including tag.

UniProt: [Q9HAW4](#)

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: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to

Application Details

increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
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