

Datasheet for ABIN3090549

CHAF1B Protein (AA 1-559) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	CHAF1B
Protein Characteristics:	AA 1-559
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHAF1B protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MKVITCEIAW HNKEPVYSLD FQHGTAGRIH RLASAGVDTN VRIWKVEKGP DGKAIVEFLS NLARHTKAVN VVRFSPTEGEI LASGGDDAVI LLWKVNDNKE PEQIAFQDED EAQLNKENWT VVKTLRGHLE DVEDICWATD GNLMASASVD NTAIWDVSK GQKISIFNEH KSYVQGVTDW PLGQYVATLS CDRVLRVYSI QKKRVAFNVS KMLSGIGAEG EARSYRMFHD DSMKSFFRRL SFTPDGSLLL TPAGCVESGE NVMNTTYVFS RKNLKRPIAH LPCPGKATLA VRCCPVYFEL RPVVETGVEL MSLPYRLVFA VASEDSVLLY DTQSFPGFY VSNIHYHTLS DISWSSDGAF LAISSDGYC SFVTFEKDEL GIPLKEKPVL NMRTPDATK TKSQTHRGSS PGPRPVEGTP ASRTQDPSSP GTTPPQARQA PAPTVIDRPP SITPAVKSPL PGPSEEKTLQ PSSQNTKAHP SRRVTLNLTQ AWSKTPRRI NLTPKTDTP PSSVPTSVIS TPSTEEIQSE TPGDAQGSPP ELKRPRLDEN KGGTESLDP

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.
- 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:	CHAF1B
Alternative Name:	CHAF1B (CHAF1B Products)
Background:	Chromatin assembly factor 1 subunit B (CAF-1 subunit B) (Chromatin assembly factor I p60 subunit) (CAF-I 60 kDa subunit) (CAF-I p60) (M-phase phosphoprotein 7),FUNCTION: Complex that is thought to mediate chromatin assembly in DNA replication and DNA repair. Assembles histone octamers onto replicating DNA in vitro. CAF-1 performs the first step of the nucleosome assembly process, bringing newly synthesized histones H3 and H4 to replicating DNA, histones H2A/H2B can bind to this chromatin precursor subsequent to DNA replication to complete the histone octamer. {ECO:0000269 PubMed:9813080}.
Molecular Weight:	61.5 kDa
UniProt:	Q13112

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 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

Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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