

Datasheet for ABIN3094630

PHF20 Protein (AA 1-1012) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	PHF20
Protein Characteristics:	AA 1-1012
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHF20 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MTKHPPNRRG ISFEVGAQLE ARDRLKNWYP AHIEDIDYEE GKVLHFWRW NHRYDEWFCW
DSPYLRPLEK IQLRKEGLHE EDGSSEFQIN EQVLACWSDC RFYPAKVTAV NKDGTYYTVKF
YDGVVQTVKH IHVKAFSKQD NIVGNARPKE TDHKSLS SSP DKREKFKEQR KATVNVKKDK
EDKPLKTEKR PKQPDKEGKL ICSEKGVSE KSLPKNEKED KENISENDRE YSGDAQVDKK
PENDIVKSPQ ENLREPKRKR GRPPSIAPTA VDSNSQTLQP ITLELRRRKI SKGCEVPLKR
PRLDKNSSQE KSKNYSENTD KDLSRRRSSR LSTNGTHEIL DPDLVVSDLV DTDPLQDTLS
STKESEEGQL KSALEAGQVS SALTCHSFGD GSGAAGLELN CPSMGENTMK TEPTSPLVEL
QEISTVEVTN TFKKTDDFGS SNAPAVDLDH KFRCKVVDCL KFFRKAKLLH YHMKYFHGME
KSLEPEESPG KRHVQTRGPS ASDKPSQETL TRKRVSASSP TTKDKEKNKE KKFKEFVRVK
PKKKKKKKKK TKPECPCSEE ISDTSQEPSP PKAFAVTRCG SSHKPGVHMS PQLHGPESGH
HKGKVKALEE DNLSESSSES FLWSDDEYGG DVDVTTNPDE ELDGDDRYDF EVVRCICEVQ
EENDFMIQCE ECQCWQHGVG MGLLEENVPE KYTCYVCQDP PGQRPGFKYW YDKEWLSRGH

MHGLAFLEEN YSHQNAKKIV ATHQLLDVQ RVIEVLHGLQ LKMSILQSRE HPDLPLWCQP
WKQHSGEGRS HFRNIPVTD T RSKEEAPSYR TLNGAVEKPR PLALPLPRSV EESYITSEHC
YQKPRAYYP A VEQKLVVETR GSALDDAVNP LHENGDDSL S PRLGWPLDQD RSKGSDPKP
GSPKVKEYVS KKALPEEAPA RKLLDRGGEG LLSSQHQQWF NLLTHVESLQ DEVTHRMDSI
EKELDVLESW LDYTGELEPP EPLARLPQLK HCIKQLLMDL GKVQQIALCC ST

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 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 in several dilutions and is measured against its

Product Details

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®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag 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:	PHF20
Alternative Name:	PHF20 (PHF20 Products)
Background:	PHD finger protein 20 (Glioma-expressed antigen 2) (Hepatocellular carcinoma-associated antigen 58) (Novel zinc finger protein) (Transcription factor TZP),FUNCTION: Methyllysine-binding protein, component of the MOF histone acetyltransferase protein complex. Not required for maintaining the global histone H4 'Lys-16' acetylation (H4K16ac) levels or locus specific histone acetylation, but instead works downstream in transcriptional regulation of MOF target genes (By similarity). As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. Contributes to methyllysine-dependent p53/TP53 stabilization and up-regulation after DNA damage. {ECO:0000250, ECO:0000269 PubMed:20018852, ECO:0000269 PubMed:22864287}.
Molecular Weight:	115.4 kDa
UniProt:	Q9BVI0

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
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Application Details

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)



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