

Datasheet for ABIN3093172

PHF17 Protein (AA 1-842) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	PHF17
Protein Characteristics:	AA 1-842
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHF17 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MKRGRLPSSS EDSDDNGSLs TTWSQNSRSQ HRRSSCSRHE DRKPSEVFRT DLITAMKLHD</p> <p>SYQLNPDEYY VLADPWRQEW EKGVQVPVSP GTIPQPVARV VSEEKSLMFI RPKKYIVSSG</p> <p>SEPPELGYVD IRTLADSVCR YDLNDMDAAW LELTNEEFKE MGMPDELDEYT MERVLEEFEEQ</p> <p>RCYDNMNHAI ETEEGLGIEY DEDVVCDCVQ SPDGEDGNEM VFCDKCNICV HQACYGILKV</p> <p>PEGSWLCRTC ALGVQPKCLL CPKKGAMKP TRSGTKWVHV SCALWIPEVS IGSPEKMEPI</p> <p>TKVSHIPSSR WALVCSLCNE KFGASIQCSV KNCRTAFHVT CAFDRGLEMK TILAENDEVK</p> <p>FKSYCPKHSS HRKPEESLGK GAAQENGAPC CSPRNPLEPF ASLEQNREEA HRVSVRKQKL</p> <p>QQLEDEFYTF VNLLDVARAL RLPEEVDFL YQYWKLRKV NFNKPLITPK KDEEDNLAKR</p> <p>EQDVLFRRLQ LFTHLRQDLE RVRNLTYMVT RREKIKRSVC KVQEIQIFNLY TKLLEQERVS</p> <p>GVPSSCSSSS LENMLLFNSP SVGPDAPKIE DLKWHSAFFR KQMGTSVLVHS LKKPHKRDPL</p> <p>QNSPGSEGKT LLKQPDLCGR REGMVVPESF LGLEKTFAEA RLISAQQKNG VVMPDHGKRR</p>

DNRFHCDLIK GDLKDKSFKQ SHKPLRSTDV SQRHLDNTRA ATSPGVGQSA PGTRKEIVPK
CNGSLIKVNY NQTAVKVPTT PASPVKNWGG FRIPKKGERQ QQGEAHDGAC HQHSDYPYLG
LGRVPAKERA KSKLKSDNEN DGYVPDVEMS DSESEASEKK CIHTSSTISR RTDIIRRSIL AS

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

Product Details

	System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	PHF17
Alternative Name:	JADE1 (PHF17 Products)
Background:	<p>Protein Jade-1 (Jade family PHD finger protein 1) (PHD finger protein 17),FUNCTION: Scaffold subunit of some HBO1 complexes, which have a histone H4 acetyltransferase activity (PubMed:16387653, PubMed:19187766, PubMed:20129055, PubMed:24065767). Plays a key role in HBO1 complex by directing KAT7/HBO1 specificity towards histone H4 acetylation (H4K5ac, H4K8ac and H4K12ac), regulating DNA replication initiation, regulating DNA replication initiation (PubMed:20129055, PubMed:24065767). May also promote acetylation of nucleosomal histone H4 by KAT5 (PubMed:15502158). Promotes apoptosis (PubMed:16046545). May act as a renal tumor suppressor (PubMed:16046545). Negatively regulates canonical Wnt signaling, at least in part, cooperates with NPHP4 in this function (PubMed:22654112). {ECO:0000269 PubMed:15502158, ECO:0000269 PubMed:16046545, ECO:0000269 PubMed:16387653, ECO:0000269 PubMed:19187766, ECO:0000269 PubMed:20129055, ECO:0000269 PubMed:22654112, ECO:0000269 PubMed:24065767}.</p>
Molecular Weight:	95.5 kDa
UniProt:	Q6IE81

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:	<p>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.</p> <p>During lysate production, the cell wall and other cellular components that are not required for</p>

Application Details

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