

Datasheet for ABIN3081348

## HINFP Protein (AA 1-517) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	HINFP
Protein Characteristics:	AA 1-517
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HINFP protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MPPPGKVPRK ENLWLQCEWG SCSFVCSTME KFFEHVTVQHL QQHLHGSGEE EEEEEEDDPL          EEEFSLWQE CGFCSLDSSA DLRHVYFHC YHTKLKQWGL QALQSQADLG PCILDFQSRN          VIPDIPDHFL CLWEHCENSF DNPEWFYRHV EAHSLCCEYE AVGKDNPVVL CGWKGCTCTF          KDRSKLREHL RSHTQEKVVA CPTCGGMFAN NTKFLDHIRR QTSLDQQHFQ CSHCSKR FAT          ERLLRDHMRN HVNHYKCPLC DMTCP LPSSL RNHMRFRHSE DRPFKDCDD YSCKNLIDLQ          KHLDT HSEEP AYRCDFENCT FSARSLCSIK SHYRKVHEGD SEPRYKCHVC DKCFTRGNNL          TVHLRKKHQF KWPSGHPFRF YKEHEDGYMR LQLVRYESVE LTQQLLRQPQ EGSGLGTS LN          ESSLQGIILE TVPGEPGRKE EEEEGKGSEG TALSASQDNP SSVIHVVNQT NAQQQQEIVY          YVLSEAPGEP PPAPEPPSGG IMEKLQGIAE EPEIQMV</p> <p><b>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</b></p>

### have a special request, please contact us.

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#### 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.

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#### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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#### Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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#### Grade:

custom-made

## Target Details

Target:	HINFP
Alternative Name:	HINFP ( <a href="#">HINFP Products</a> )
Background:	<p>Histone H4 transcription factor (Histone nuclear factor P) (HiNF-P) (MBD2-interacting zinc finger protein) (Methyl-CpG-binding protein 2-interacting zinc finger protein),FUNCTION: Transcriptional repressor that binds to the consensus sequence 5'-CGGACGTT-3' and to the RB1 promoter. Transcriptional activator that promotes histone H4 gene transcription at the G1/S phase transition in conjunction with NPAT. Also activates transcription of the ATM and PRKDC genes. Autoregulates its expression by associating with its own promoter.</p> <p>{ECO:0000269 PubMed:11553631, ECO:0000269 PubMed:14585971, ECO:0000269 PubMed:14752047, ECO:0000269 PubMed:15988025, ECO:0000269 PubMed:17163457, ECO:0000269 PubMed:17974976, ECO:0000269 PubMed:18850719}.</p>
Molecular Weight:	59.7 kDa
UniProt:	<a href="#">Q9BQA5</a>
Pathways:	<a href="#">Chromatin Binding</a>

## 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 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!</p>
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months