

Datasheet for ABIN3135444

## HIRA Protein (AA 1-1015) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	HIRA
Protein Characteristics:	AA 1-1015
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HIRA protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MKLLKPTWVN HNGKPIFSVD IHPDGTKFAT GGQGQDSGKV VIWNMSPVLQ EDDEKDENIP</p> <p>KMLCQMDNHL ACVNCVRWSN SGMYLASGGD DKLMVWKRA TYIGPSTVFG SSGKLANVEQ</p> <p>WRCVSILRSH SGDVMDDVAWS PHDAWLASCS VDNTVVIWNA VKFPEILATL RGHSGLVKGL</p> <p>TWDPVGKYIA SQADDRSLKV WRTLWDQLET SITKPFDECG GTTHVLRLSW SPDGHYLVSA</p> <p>HAMNNSGPTA QIIEREGWKT NMDFVGHRKA VTVVKFNPKI FKQKQKNGSS TKPSCPYCCC</p> <p>AVGSKDRSLV VWLTCLKRPL VVIHELFDKS IMDISWTLNG LGILVCSMDG SVAFLDFSQD</p> <p>ELGDPLSEEE KSRIHQSTYG KSLAIMTEAQ LSTAVIENPE MLKYQRRQQQ QQLDQKNATT</p> <p>RETSSASSVT GVVNGESLED IRKNLLKKQV ETRTADGRRR ITPLCIAQLD TGDFSTAFFN</p> <p>SIPLSSSLAG TMLSSPSGQQ LLPLDSSTPS FGASKPCTEP VAATSARPTG ESVSKDSMNA</p> <p>TSTPAASSPS VLTTPSKIEP MKAFDSRFTE RSKATPGAPS LTSVIPTAVE RLKEQNLVKE</p> <p>LRSRELESSS DSDEKVHLAK PSSLSKRKLE LEVETVEKKK KGRPRKDSRL LPMSLSVQSP</p>

AALSTEKEAM CLSAPALALK LPIPGPQRAF TLQVSSDPSM YIEVENEVTT VGGIRLSRLK  
CNREGKEWET VLSSRVLTAA GSCDVVCVAC EKRMLSVFST CGRRLLPPIL LPSPISTLHC  
TGPYVMALTA AATLSVWDVH RQVVVVKEES LHSILSGSDM TVSQILLTQH GIPVMNLSDG  
KAYCFNPSSL TWNLVSDKQD SLAQCADFRN SLPSQDAMLC SGPLAIQGR TSNSGRQAAR  
LFSVPHVVQQ ETTLAYLENQ VAAALTLQSS HEYRHWLLLY ARYLVNEGFE YRLREICKDL  
LGPVHCSTGS QWESTVVGLR KRELLKELLP VIGQNLRFQR LFTECQEQLD ILRDK

**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.**

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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.

## Product Details

- 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: HIRA

Alternative Name: Hira ([HIRA Products](#))

Background: Protein HIRA (TUP1-like enhancer of split protein 1),FUNCTION: Required for the periodic repression of histone gene transcription during the cell cycle (By similarity). Cooperates with ASF1A to promote replication-independent chromatin assembly. Required for the formation of senescence-associated heterochromatin foci (SAHF) and efficient senescence-associated cell cycle exit. {ECO:0000250, ECO:0000269|PubMed:16399082}.

Molecular Weight: 111.8 kDa

UniProt: [Q61666](#)

Pathways: [Chromatin Binding](#)

## 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 *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.

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Application Details

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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