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Datasheet for ABIN3092953

## HIPK3 Protein (AA 1-1215) (Strep Tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	HIPK3
Protein Characteristics:	AA 1-1215
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This HIPK3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

#### Product Details

Sequence: MASQVLVYPP YVYQTQSSAF CSVKCLKVEP SSCVFQERNY PRTYVNGRNF GNSHPPTKGS  
AFQTKIPFNR PRGHNFSLQT SAVVLKNTAG ATKVIAAQAQ QAHVQAPQIG AWRNRLHFLE  
GPQRCLGRK SEELDNHSSA MQIVDELSIL PAMLQTNMGN PVTVVATTG SKQNCTTGEG  
DYQLVQHEVL CSMKNTYEVL DFLGRGTFGQ VVKCWKRGTN EIVAIIKILKN HPSYARQQI  
EVSILARLST ENADEYNFVR AYECFQHRNH TCLVFEMLEQ NLYDFLKQNK FSPLPLKVIR  
PILQQVATAL KKLKSLGLIH ADLKPENIML VDPVRQPYRV KVIDFGSASH VSKTVCSTYL  
QSRYYRAPEI ILGLPFCEAI DMWSLGCVIA ELFLGWPLYG GALEYDQIRY ISQTQGLPGE  
QLLNVGTKST RFFCKETDMS HSGWRLKTL EHEAETGMKS KEARKYIFNS LDDVAHVNTV  
MDLEGSDLLA EKADRREFVS LLLKMLLIDA DLRITPAETL NHPFVNMKHL LDFPHSNHVK  
SCFHIMDICK SHLNCDTNN HNKTSLLRPV ASSSTATLTA NFKIGTLRS QALTTSAHSV  
VHHGIPLQAG TAQFGCGDAF QQTLLICPPA IQGIPATHGK PTSYSIRVDN TVPLVTQAPA  
VQPLQIRPGV LSQTSWGRTO QMLVPAWQQV TPLAPATTTL TSESVAGSHR LGDWGKMISC

SNHYNSVMPQ PLLTNQITLS APQPVSVGIA HVVWPQPATT KKNKQCQNRG ILVKLMEWEP  
GREEINAFSW SNSLQNTNIP HSAFISPKII NGKDVVEEVSC IETQDNQNSE GEARNCCETS  
IRQSDSSVS DKQRQTIIIA DSPSPAVSVI TISSDTDEEE TSQRHSLREC KGSLDCEACQ  
STLNIDRMCS LSSPDSTLST SSSGQSSPSP CKRPNSMSDE EQESSCDTV D GSPTSDSSGH  
DSPFAESTFV EDTHENTELV SSADTETKPA VCSVVVPPVE LENGNADEH MANTDSICQP  
LIKGRSAPGR LNQPSAVGTR QQKLTSAFQQ QHLNFSQVQH FGSGHQEWNG NFGHRRQQAY  
IPTSVTSNPF TLSHGSPNHT AVHAHLAGNT HLGQPTLLP YPSSATLSSA APVAHLLASP  
CTSRPMLQHP TYNISHPSGI VHQVPVGLNP RLLPSPTIHQ TQYKPIFPPH SYIAASPAYT  
GFPLSPTKLS QYPYM

**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 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!

## Product Details

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### 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 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®):

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

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### Target:

HIPK3

### Alternative Name:

HIPK3 ([HIPK3 Products](#))

### Background:

Homeodomain-interacting protein kinase 3 (EC 2.7.11.1) (Androgen receptor-interacting nuclear protein kinase) (ANPK) (Fas-interacting serine/threonine-protein kinase) (FIST) (Homolog of protein kinase YAK1),FUNCTION: Serine/threonine-protein kinase involved in transcription regulation, apoptosis and steroidogenic gene expression. Phosphorylates JUN and RUNX2. Seems to negatively regulate apoptosis by promoting FADD phosphorylation. Enhances androgen receptor-mediated transcription. May act as a transcriptional corepressor for NK homeodomain transcription factors. The phosphorylation of NR5A1 activates SF1 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. In osteoblasts, supports transcription activation: phosphorylates RUNX2 that synergizes with SPEN/MINT to enhance FGFR2-mediated activation of the osteocalcin FGF-responsive element (OCFRE). {ECO:0000269|PubMed:14766760, ECO:0000269|PubMed:17210646}.

### Molecular Weight:

133.7 kDa

## Target Details

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UniProt: [Q9H422](#)

## Application Details

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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.

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

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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