

Datasheet for ABIN3137213

## HIPK3 Protein (AA 1-1192) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	HIPK3
Protein Characteristics:	AA 1-1192
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HIPK3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Brand:	AlIcE®
Sequence:	<p>MASQVLVYPP VVYQTQSSAF CSVKKLKVEP SGCVFQERTY PQIHVNGRNF GNSHPSTKGS</p> <p>AFQTKIPFTK PRGHSFSLQA GAIIVKDTAG ATKVLAAQAQ QAGVEAPRAV VWRNRLHFLE</p> <p>GPQRCLGRK SEELNHSGA MQIVDELSIL PAMLQTNMGN PTVVTATTG SKQNCTSGEG</p> <p>DYQLVQHEVL CSMKNTYEVL DFLGRGTFGQ VVKCWKRGTN EIVAIKILKN HPSYARQGQI</p> <p>EVSILARLST ENADEYNFVR AYECFQHRNH TCLVFEMLEQ NLYDFLKQNK FSPLPLKVIR</p> <p>PVLQQVATAL KKLKSLGLIH ADLKPENIML VDPVRQPYRV KVIDFGSASH VSKTVCSTYL</p> <p>QSRYYRAPEI ILGLPFCEAI DMWSLGCVIA ELFLGWPLYP GALEYDQIRY ISQTQGLPGE</p> <p>QLLNVGTKST RFFCRETDMS HSGWRLKTLE EHEAETGMKS KEARKYIFNS LDDIVHVNTV</p> <p>MDLEGGDLLA EKADRREFVN LLKKMLLIDA DLRITPIETL NHPFVNMKHL LDFPHSNHVK</p> <p>SCFHIMDICK SPSSCETNNH SKMSLLRPVA SNGTAALAAN FTKVGTLSRQ ALTSAHSVV</p> <p>HHGIPLQAGT AQFGCGDAFH QTLIICPPAI QGIPAAHGKP TSYSIRVDNT VPLVTQAPAV</p>

QPLQIRPGVL SQQTWSGRTQ QMLIPAWQQV TPMAPAAATL TSEGMAGSQR LGDWGKMIPH  
SNHYNSVMPP PLLTNQITLS APQPISVGIA HVVWPQPATT KKNKLCQNRS NSLQNTNIPH  
SAFISPKIIS GKEVEEVSCV DTQDNHTSEG EAGTCREASV RQDSSVSDKQ RQTIIIADSP  
SPAVSVITIS SDSDEETSP RPSLRECKGS LDCEACQSTL NIDRMCSLSS PDSTLSTSSS  
GQSSPSPCKR PNSMSDDEQE SGCETVDGSP TSDSSGHDSP FAENSFVEDA HQNTELGTC  
GPEAKPAVGT AVEPPVGRES GLSVDEHMAN TDSTCQPLRK GQPAPGKLHQ PPALGARQQK  
PAAAFPPQHL NLSQVQHFGT GHQEWNGNFG HRRQQAYIPT SVTSNPFTLS HGSPNHTAVH  
AHLAGSTHLG GQPTLLPYPS SASLSSAAPV AHLLASPCTS RPMLQHPTYN ISHPSGIVHQ  
VPVGINPRLL PSPTIHQTQY KPIFPPHSYI AASPAYTGFP LSPTKLSQYP YM

**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!

## Product Details

### 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 System (ALiCE®).

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

Grade: custom-made

## Target Details

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) (Nuclear body-associated kinase 3) (Nbak3),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:11034606, ECO:0000269|PubMed:17210646, ECO:0000269|PubMed:20484411}.

Molecular Weight: 130.1 kDa

UniProt: [Q9ERH7](#)

## 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.

## Application Details

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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>
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Restrictions:	For Research Use only
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## Handling

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