

Datasheet for ABIN3132258

## HIPK1 Protein (AA 1-1210) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	HIPK1
Protein Characteristics:	AA 1-1210
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HIPK1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MASQLQVFSP PSVSSSAFCS AKKLKIEPSG WDVSGQSSND KYYTHSKTLP ATQGQASSSH</p> <p>QVANFNLPAY DQGLLLPAPA VEHIVVTAAD SSGSAATATF QSSQTLTHRS NVSLLEPYQK</p> <p>CGLKRKSEEV ESNGSVQIE EHPPLMLQNR TVVGAAATTT TVTTKSSSSS GEGDYQLVQH</p> <p>EILCSMTNSY EVLEFLGRGT FGQVAKCWKR STKEIVAIIK LKNHPSYARQ GQIEVSILSR</p> <p>LSSENADEYN FVRSYECFQH KNHTCLVFEM LEQNLYDFLK QNKFSPLPLK YIRPILQQVA</p> <p>TALMKLKSLG LIHADLKPEN IMLVDPVRQP YRVKVIDFGS ASHVS KAVCS TYLQSRYYRA</p> <p>PEIILGLPFC EAIDMWSLGC VIAELFLGWP LYPGASEYDQ IRYISQTQGL PAEYLLSAGT</p> <p>KTTFFNRDP NLGYPLWRLK TPEEHELETG IKSKEARKYI FNCLDDMAQV NMSTDLEGTD</p> <p>MLAEKADRRE YIDLLKMLT IDADKRITPL KTLNHQFVTM SHLLDFPHSS HVKSCFQNME</p> <p>ICKRRVHMYD TVSQIKSPFT THVAPNTSTN LTMSFSNQLN TVHNQASVLA SSSTAAAATL</p> <p>SLANSDVSLN NYQSALYPSS AAPVPGVAQQ GVSLQPGTTQ ICTQTDPFQQ TFIVCPPAFQ</p>

TGLQATTKHS GFPVRMDNAV PIVPQAPAAQ PLQIQSGVLT QGSCTPLMVA TLHPQVATIT  
PQYAVPFTLS CAAGRPALVE QTA AVLQAWP GGTQQILLPS AWQQLPGVAL HNSVQPAAVI  
PEAMGSSQQL ADWRNAHSHG NQYSTIMQQP SLLTNHVTLA TAQPLNVGVA HVVRQQQSSS  
LPSKKNKQSA PVSSKSSLEV LPSQVYSLVG SSPLRTTSSY NSLVPVQDQH QPIIIPDTPS  
PPVSVITIRS DTDEEDNKY KPNSSSLKAR SNVISYVTVN DSPDSDDLSS SPHPTDTLSA  
LRGNSGTLLE GPGRPAADGI GTRTIIVPPL KTQLGDCTVA TQASGLLSSK TKPVASVSGQ  
SSGCCITPTG YRAQRGGASA VQPLNLSQNG QSSSASTSQE RSSNPAPRRQ QAFVAPLSQA  
PYAFQHGSPL HSTGHPHLAP APAHLPSQPH LYTYAAPTSA AALGSTSSIA HLFSPQGSSR  
HAAAYTTHPS TLVHQVPVSV GPSLLTSASV APAQYQHQA TQSYIGSSRG STIYTGYPIS  
PTKISQYSYL

**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.
- 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:	HIPK1
Alternative Name:	Hipk1 ( <a href="#">HIPK1 Products</a> )
Background:	<p>Homeodomain-interacting protein kinase 1 (EC 2.7.11.1) (Nuclear body-associated kinase 2) (Protein kinase Myak),FUNCTION: Serine/threonine-protein kinase involved in transcription regulation and TNF-mediated cellular apoptosis. Plays a role as a corepressor for homeodomain transcription factors. Phosphorylates DAXX and MYB. Phosphorylates DAXX in response to stress, and mediates its translocation from the nucleus to the cytoplasm. Inactivates MYB transcription factor activity by phosphorylation. Prevents MAP3K5-JNK activation in the absence of TNF. TNF triggers its translocation to the cytoplasm in response to stress stimuli, thus activating nuclear MAP3K5-JNK by derepression and promoting apoptosis. May be involved in anti-oxidative stress responses. Involved in the regulation of eye size, lens formation and retinal lamination during late embryogenesis. Promotes angiogenesis and to be involved in erythroid differentiation. May be involved in malignant squamous cell tumor formation. Phosphorylates PAGE4 at 'Thr-51' which is critical for the ability of PAGE4 to potentiate the transcriptional activator activity of JUN (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q86Z02, ECO:0000269 PubMed:12702766, ECO:0000269 PubMed:16917507, ECO:0000269 PubMed:20231426, ECO:0000269 PubMed:20579985}.</p>
Molecular Weight:	130.7 kDa
UniProt:	<a href="#">O88904</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:** 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

**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