



Datasheet for ABIN3137213
HIPK3 Protein (AA 1-1192) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	HIPK3
Protein Characteristics:	AA 1-1192
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HIPK3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: MASQVLVYPP YVYQTQSSAF CSVKCLKVEP SGCVFQERTY PQIHVNGRNF GNSHPSTKGS
 AFQTKIPFTK PRGHSFSLQA GAIVVKDTAG ATKVLAAQAQ QAGVEAPRAV VWRNRLHFLE
 GPQRCLGRK SEELNHSGA MQIVDELSIL PAMLQTNMGN PVTVVATTG SKQNCTSGEG
 DYQLVQHEVL CSMKNTYEVL DFLGRGTFGQ VVKCWKRGTN EIVAIKILKN HPSYARQQI
 EVSILARLST ENADEYNFVR AYECFQHRNH TCLVFEMLEQ NLYDFLKQNK FSPLPLKVIR
 PVLQQVATAL KKLKSLGLIH ADLKPENIML VDPVRQPYRV KVIDFGSASH VSKTVCSTYL
 QSRYYRAPEI ILGLPFCEAI DMWSLGCVIA ELFLGWPLYP GALEYDQIRY ISQTQGLPGE
 QLLNVGKST RFFCRETDMS HSGWRCLKLE EHEAETGMKS KEARKYIFNS LDDIVHVNTV
 MDLEGGDLLA EKADRREFVN LLKKMLLIDA DLRIPIETL NHPFVNMKHL LDFPHSNHVK
 SCFHIMDICK SPSSCETNNH SKMSLLRPVA SNGTAALAN FTKVGTLSQ ALTTSAHSV
 HHGIPLQAGT AQFGCGDAFH QTLICPPAI QGIPAAHGKP TSYISIRVDNT VPLVTQAPAV
 QPLQIRPGVL SQQTWSGRTQ QMLIPAWQQV TPMAAAAATL 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
PAAAFPQQHL NLSQVQHFGT GHQEWNGNFG HRRQQAYIPT SVTSNPFTLS HGSPNHTAVH
AHLAGSTHLG GQPTLLPYPS SASLSSAAPV AHLLASPCTS RPMLQHPTYN ISHPSGIVHQ
VPVGINPRLL PSPTIHQTQY KPIFPPHSYI AASPAYTGFP LSPTKLSQYP YM

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Hipk3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.

Product Details

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: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: HIPK3

Alternative Name: Hipk3 ([HIPK3 Products](#))

Background: 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: 131.0 kDa Including tag.

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.

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process