

## Datasheet for ABIN3092704 GAK Protein (AA 2-1311) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	GAK
Protein Characteristics:	AA 2-1311
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GAK protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence:	<p>SLLQSALDFL AGPGSLGGAS GRDQSDFVGQ TVELGELRLR VRRVLAEGGF AFVYEAQDVG</p> <p>SGREYALKRL LSNEEEKNRA IIQEVCFMCK LSGHPNIVQF CSAASIGKEE SDTGQAEFLL</p> <p>LTELCKGQLV EFLKKMESRG PLSCDTVLKI FYQTCRAVQH MHRQKPPIIH RDLKVENLLL</p> <p>SNQGTIKLCD FGSATTISHY PDYSWSAQRR ALVEEEITRN TTPMYRTPEI IDLYSNFPIG</p> <p>EKQDIWALGC ILYLLCFRQH PFEDGAKLRI VNGKYSIPPH DTQYTVFHSL IRAMLQVNPE</p> <p>ERLSIAEVVH QLQEIAAARN VNPKSPITEL LEQNGGYGSA TLSRGPPPPV GPAGSGYSGG</p> <p>LALAEYDQPY GGFLDILRGG TERLFTNLKD TSSKVIQSV NYAKGDLDIS YITSRIAVMS</p> <p>FPAEGVESAL KNNIEDVRLF LDSKHPGHYA VYNLSPRTYR PSRFHNRVSE CGWAARRAPH</p> <p>LHTLYNICRN MHAWLRQDHK NVCVVHCMDG RAASAVAVCS FLCFCRLFST AEAAYVMFSM</p> <p>KRCPPGIWPS HKRYIEYMCD MVAEEPITPH SKPILVRAVV MTPVPLFSKQ RSGCRPFCEV</p> <p>YVGDERVAST SQEYDKMRDF KIEDGKAVIP LGVTVQGDVL IVIYHARSTL GGRLQAKMAS</p> <p>MKMFQIQFHT GFVPRNATTV KFAKYDLDAC DIQEKYPDLF QVNLEVEVEP RDRPSREAPP</p>
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WENSSMRGLN PKILFSSREE QQDILSKFGK PELPRQPGST AQYDAGAGSP EAEPTDSDSP  
PSSSADASRF LHTLDWQEEK EAETGAENAS SKESESALME DRDESEVSDE GGSPISSEGG  
EPRADPEPPG LAAGLVQDL VFEVETPAVL PEPVPQEDGV DLLGLHSEVG AGPAVPPQAC  
KAPSSNTDLL SCLLPPEAA SQGPPEDLLS EDPLLLASPA PPLSVQSTPR GGPPAAADPF  
GPLLPSSGNN SQPCSNPDF GEFLNSDSVT VPPSFPSAHS APPPSCSADF LHLGDLPGEP  
SKMTASSSNP DLLGGWAAWT ETAASAVAPT PATEGPLFSP GGQPAPCGSQ ASWTKSQNP  
PFADLGLSS GLQGSPAGFP PGGFIPKTAT TPKGSSSWQT SRPPAQGASW PPQAKPPPKA  
CTQPRPNYAS NFSVIGAREE RGVRAFSFAK KPKVSENFEE DLLSNQGFSS RSDKKGPKTI  
AEMRKQDLAK DTDPLKLL DWIEGKERNI RALLSTLHTV LWDGESRWTP VGMADLVAPE  
QVKKHYRAV LAVHPDKAAG QPYEQHAKMI FMELNDWSE FENQGSRLP

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

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human GAK 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.

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### 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

## Product Details

- different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:	>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:	GAK
Alternative Name:	GAK ( <a href="#">GAK Products</a> )
Background:	Associates with cyclin G and CDK5. Seems to act as an auxilin homolog that is involved in the uncoating of clathrin-coated vesicles by Hsc70 in non-neuronal cells. Expression oscillates slightly during the cell cycle, peaking at G1. {ECO:0000269 PubMed:10625686}.
Molecular Weight:	144.0 kDa Including tag.
UniProt:	<a href="#">O14976</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:	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.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
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## Handling

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