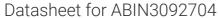
# antibodies .- online.com





# GAK Protein (AA 2-1311) (His tag)





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#### 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:

SLLQSALDFL AGPGSLGGAS GRDQSDFVGQ TVELGELRLR VRRVLAEGGF AFVYEAQDVG
SGREYALKRL LSNEEEKNRA IIQEVCFMKK LSGHPNIVQF CSAASIGKEE SDTGQAEFLL
LTELCKGQLV EFLKKMESRG PLSCDTVLKI FYQTCRAVQH MHRQKPPIIH RDLKVENLLL
SNQGTIKLCD FGSATTISHY PDYSWSAQRR ALVEEEITRN TTPMYRTPEI IDLYSNFPIG
EKQDIWALGC ILYLLCFRQH PFEDGAKLRI VNGKYSIPPH DTQYTVFHSL IRAMLQVNPE
ERLSIAEVVH QLQEIAAARN VNPKSPITEL LEQNGGYGSA TLSRGPPPPV GPAGSGYSGG
LALAEYDQPY GGFLDILRGG TERLFTNLKD TSSKVIQSVA NYAKGDLDIS YITSRIAVMS
FPAEGVESAL KNNIEDVRLF LDSKHPGHYA VYNLSPRTYR PSRFHNRVSE CGWAARRAPH
LHTLYNICRN MHAWLRQDHK NVCVVHCMDG RAASAVAVCS FLCFCRLFST AEAAVYMFSM
KRCPPGIWPS HKRYIEYMCD MVAEEPITPH SKPILVRAVV MTPVPLFSKQ RSGCRPFCEV
YVGDERVAST SQEYDKMRDF KIEDGKAVIP LGVTVQGDVL IVIYHARSTL GGRLQAKMAS
MKMFQIQFHT GFVPRNATTV KFAKYDLDAC DIQEKYPDLF QVNLEVEVEP RDRPSREAPP

WENSSMRGLN PKILFSSREE QQDILSKFGK PELPRQPGST AQYDAGAGSP EAEPTDSDSP PSSSADASRF LHTLDWQEEK EAETGAENAS SKESESALME DRDESEVSDE GGSPISSEGQ EPRADPEPPG LAAGLVQQDL VFEVETPAVL PEPVPQEDGV DLLGLHSEVG AGPAVPPQAC KAPSSNTDLL SCLLGPPEAA SQGPPEDLLS EDPLLLASPA PPLSVQSTPR GGPPAAADPF GPLLPSSGNN SQPCSNPDLF GEFLNSDSVT VPPSFPSAHS APPPSCSADF LHLGDLPGEP SKMTASSSNP DLLGGWAAWT ETAASAVAPT PATEGPLFSP GGQPAPCGSQ ASWTKSQNPD PFADLGDLSS GLQGSPAGFP PGGFIPKTAT TPKGSSSWQT SRPPAQGASW PPQAKPPPKA CTQPRPNYAS NFSVIGAREE RGVRAPSFAQ KPKVSENDFE DLLSNQGFSS RSDKKGPKTI AEMRKQDLAK DTDPLKLKLL DWIEGKERNI RALLSTLHTV LWDGESRWTP VGMADLVAPE QVKKHYRRAV LAVHPDKAAG QPYEQHAKMI FMELNDAWSE FENQGSRPLF

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.
- 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 receival 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:

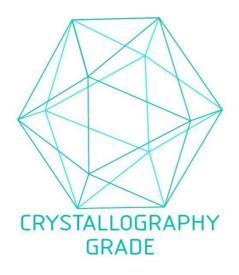
1. In a first purification step, the protein is purified from the cleared cell lysate using three

	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	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 (GAK Products)
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:	014976
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 gurantee
	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	

## 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