

Datasheet for ABIN3135753  
**DGKQ Protein (AA 1-934) (His tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	DGKQ
Protein Characteristics:	AA 1-934
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKQ protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence: MAAAAEPGAR TWPGSGSPRL GSPAGSPVLG ISGRTRPGSG PERTSRAIGS AAPGHSFRKV  
 TLTKPTFCHL CSDFIWGLAG FLCDCVNFMS HEKCLKQVKT PCTSIAPSLV RVPVAHCFGS  
 LGLYKRKFCV VCRKSLEVPA FRCEVCELHV HPDCVPFACS DCRQCHQDGG QDYDTHHHHW  
 REGNLPSGAR CEVCRKTCGS SDVLAGVRCE WCGVQAHSVC STALAPECTF GRLRSMVLPP  
 SCVRLLSRNF SKMHCFRIPE TMVLELGDGD DGVDGSAIIG TGREVL TATE STKQTLKIFD  
 GNDSMRKNQF RLVTVSLRLAR NEEVMEALR AYYISEDPKD FQLQALPLSG NAQALGKAGT  
 TEEEASKGSC PRDSVPEAWV IRSLPRTQEI LKIYPGWLVK VVAYVSIRVN SQSTARSVVQ  
 EVLPLFGQQV EDKERFQLIE VLMSSRQVQR TVLADEEPLL DRLWDIRQTS VRQVSQTRFY  
 VAETRATAPR VSLFVGGLPP GLSPQDYSNL LHEAMATKAA VVSVSHVYSL QGAVILDVTC  
 FAEAERLYML ARDTAVHGRP LTALVLPDVL HTKLPPDCCP LLVFNPKSG GLKGRELLCS  
 FRKLLNPHQV FELTNGGPLP GFHLFSQVPS FRVLVCGGDG TVGWVLAAL ETRRHACPE  
 PSVAILPLGT GNDLGRVLRW GAGYSGEDPF SVLVSVD EAD AVLMDRWTIL LDAHEIDSTE

NNVETEPPK IVQMNNYCGI GIDAELSLDF HQAREEPEGK FTSRFHNGKV YVRVGLQKIS  
HSRSLHKEIR LQVEQLEVEL PSIEGLIFIN IPSWGSADL WGSNDNDRFE KPRIDDGLLE  
VVGVTGVVHM GQVQGGLRSG IRIAQGSYFR VTLLKATPVQ VDGEPPWVQAP GHMIIISATAP  
KVHMLRKAKQ KPRKAGANRD TRVDTLPAPE GNPL

**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.
- Mouse Dgkq 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 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.

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### Purity:

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

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## Product Details

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Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

## Target Details

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Target:	DGKQ
Alternative Name:	Dgkq ( <a href="#">DGKQ Products</a> )
Background:	Phosphorylates diacylglycerol (DAG) to generate phosphatidic acid (PA). May regulate the activity of protein kinase C by controlling the balance between these two signaling lipids. Activated in the nucleus in response to alpha-thrombin and nerve growth factor (By similarity). May be involved in cAMP-induced activation of NR5A1 and subsequent steroidogenic gene transcription by delivering PA as ligand for NR5A1. Acts synergistically with NR5A1 on CYP17 transcriptional activity (By similarity). {ECO:0000250}.
Molecular Weight:	103.2 kDa Including tag.
UniProt:	<a href="#">Q6P5E8</a>

## Application Details

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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.
Restrictions:	For Research Use only

## Handling

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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

## Handling

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)

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## Images

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