



[Go to Product page](#)

Datasheet for ABIN3092141
DGKK Protein (AA 1-1271) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	DGKK
Protein Characteristics:	AA 1-1271
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKK protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MDRGAAAQG TAPPQDGEQP AESPEPPPW PPPPPPPAPP PAPLLSEAS PEPIPEPCPE
 LAPGPCPEAT SESATELYTE PTPEPATEPA SEPAPEPATE PAPEPATEPA PEPAPEPATE
 SAPEPTPEPA LESVPEPAPE LTPEVAPELA PEPTPEPVTE LAPEFCPEAA PEFRSPAPC
 LLQCPVDTRE RGLKTSPSPS PSPSPRTPMS WSRIKKILKE GPMLKNCNSF KRWKLYFLV
 QGQKLYFAHH PAFAHFETID LSQATVAESS CRNLCHSFCV ITPQRKITLA APNRKDMEEW
 INIIKTIQQG EIYKIPAAEN NPFLVGMHCW YSSYSHRTQH CNVCRESIPA LSRDAIICEV
 CKVKSHRLCA LRASKDCKWN TLSITDDLLL PADEVNMPHQ WVEGNMPVSS QCAVCHESCG
 SYQRLQDFRC LWCNSTVHDD CRRRFSKECC FRSHRSSVIP PTALSDPKGD GQLVVSSDFW
 NLDWSSACSC PLLIFINSKS GDHQGIVFLR KFKQYLNPSQ VFDLLKGGPE AGLSMFKNFA
 RFRILVCGGD GSVSWVLSLI DAFGLHEKCQ LAVIPLGTGN DLARVLGWGA FWNKSKSPLD
 ILNRVEQASV RILDRWSVMI RETPRQTPLL KGQVEMDVPR FEAAAIQHLE SAATELNKIL
 KAKYPTMII ATRFLCSAVE DFVVDIVKAW GQIKQNNTAI VSVILKSDLM YDRLSVLIDV

LAEEAAATSA EKSATEYADS SKADRKPFIP QIDHIAKCKL ELATKAQSLQ KSLKLIIFQV
EQALDEESRQ TISVKNFSST FFLEDDPEDI NQTSPRRRSR RGTLSISSL KSEDLDNLNL
DHLHFTPESI RFKEKCVMMN YFGIGLDAKI SLDFNTRRDE HPGQYNSRLK NKMWYGLLGT
KELLQRSYRK LEERVHLECD GETISLPNLQ GIVVLNITSY AGGINFWGSN TATTEYEAPA
IDDGKLEVVA IFGSVQMAMS RIINLHHHRI AQCHEVMITI DGEEGIPVQV DGEAWIQRPG
LIKIRYKNAQ QMLTRDRDFE NSMKMWEYKH TEIQAAPQPQ LDFQDSQESL SDEEYAQMQL
LARLAENLIS KLNDLSKIHQ HVSVLMGSVN ASANILNDIF YGQDSGNEMG AASCIPIETL
SRNDAVDVTF SLKGLYDDTT AFLDEKLLRS AEDETALQSA LDAMNKEFKK LSEIDWMNPI
FVPEEKSSDT DSRSLRLKIK FPKLGKKKVE EERKPKSGQS VQSFIGNLWH RRHREDEAEG
DDPLTPSRSQ L

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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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 -

Product Details

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 in several dilutions and is measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	DGKK
Alternative Name:	DGKK (DGKK Products)
Background:	Diacylglycerol kinase kappa (DAG kinase kappa) (DGK-kappa) (EC 2.7.1.107) (142 kDa diacylglycerol kinase) (Diglyceride kinase kappa),FUNCTION: Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:16210324, PubMed:23949095). Thereby, acts as a central switch between the signaling pathways activated by these second messengers with different cellular targets and opposite effects in numerous biological processes (Probable). {ECO:0000269 PubMed:16210324, ECO:0000269 PubMed:23949095, ECO:0000305}.
Molecular Weight:	141.8 kDa
UniProt:	Q5KSL6

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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



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