Datasheet for ABIN3092141

# DGKK Protein (AA 1-1271) (Strep Tag)

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## Overview

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| Quantity: | 250 µg |
| Target: | DGKK |
| Protein Characteristics: | AA 1-1271 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This DGKK protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

## Product Details

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| Brand: | AliCE® |
| Sequence: | MDRGAAAAQG TAPPQDGEQP AESPEPPPPW PPPPPPPAPP PAPPLLSEAS PEPIPEPCPE LAPGPCPEAT SESATELYTE PTPEPATEPA SEPAPEPATE PAPEPATEPA PEPAPEPATE SAPEPTPEPA LESVPEPAPE LTPEVAPELA PEPTPEPVTE LAPEFCPEAA PEFRPSPAPC LLQCPVDTRE RGLKTSPSPS PSPSPRTPMS WSRIKKILKE GPMLKNCNSF KRWKLRYFLV 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 |

KAKYPTEMII ATRFLCSAVE DFVVDIVKAW GQIKQNNTAI VSVILKSDLM YDRLSVLIDV LAEEAAATSA EKSATEYADS SKADRKPFIP QIDHIAKCKL ELATKAQSLQ KSLKLIIFQV EQALDEESRQ TISVKNFSST FFLEDDPEDI NQTSPRRRSR RGTLSSISSL KSEDLDNLNL DHLHFTPESI RFKEKCVMNN YFGIGLDAKI SLDFNTRRDE HPGQYNSRLK NKMWYGLLGT KELLQRSYRK LEERVHLECD GETISLPNLQ GIVVLNITSY AGGINFWGSN TATTEYEAPA IDDGKLEVVA IFGSVQMAMS RIINLHHHRI AQCHEVMITI DGEEGIPVQV DGEAWIQRPG LIKIRYKNAA QMLTRDRDFE NSMKMWEYKH TEIQAAPQPQ LDFQDSQESL SDEEYAQMQH 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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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

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| | all that's needed is the DNA that codes for the desired protein!<br><br>Concentration:<br>• The concentration of our recombinant proteins is measured using the absorbance at 280nm.<br>• The protein's absorbance will be measured against its specific reference buffer.<br>• We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein. |
| Purification: | One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®). |
| Purity: | > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC). |
| Grade: | custom-made |

## Target Details

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| 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

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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: | 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 |

## Application Details

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| | modifications.<br>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

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer.<br>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.** |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |