

Datasheet for ABIN7562647  
**DGKA Protein (AA 1-730) (His tag)**



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## Overview

Quantity:	1 mg
Target:	DGKA
Protein Characteristics:	AA 1-730
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKA protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Dgka Protein expressed in mammalian cells.
Sequence:	MAKEKGLISP EDFAQLQKYI EYSTKRVSDV LKVFDDGEMN RFCQGDAIGY LGFEQFMKMY LEMEEVPHHL CWALFWSFHT SQVAAEKTKS KANVICLSDV YCYFTLLEGG RPEDKLEFTF KLYDMDRNGI LDSTEVEKII LQMMRVAEYL DWDVSELRPI LQEMMREMDQ DGSGSVSLDE WVRAGATTVP LLVLLGMDVT MKDDGNHIWR PKRFTRLVYC NLCEQSISLG KQGLSCNFCK YIVHDHCAMK AQPCEVSTYA KSRKDIGVQS HLWVRGGCHS GRCDRCQKKI RTYHSLTGLH CVWCHLEIHD DCLQAVGPEC DCGLLRDHIL PPCSIYPSVL VSGQECHKHT TDDTSLCTPE AFRIEVSNT HPLLVFINK SGGKQGQSVL WKFYILNPR QVFDLKDGP PGLRFFKDVP QFRILVCGGD GTVGWVLETI DKANFATVPP VAVLPLGTGN DLARCLRWRG GYEGENLRKI LKDIELSKVV YLDRWFLEVI PQQNGEKSDP VPSQIINNYF SIGVDASIAH RFHLMREKYP EKFNRMKNK LWYFEFATSE SIFSTCKKLE ESVTVEICGK LLDLSDSLSE GIAVLNIPST HGGSNLWGDT KRPHGDTCEI NQALGSAAKI ITDPDILKTC VPDMSDKRLE VVGIEGAIEM GQIYTRLKSA GHRLAKCSEI TFQTTKTLPM QIDGEPWMQA PCTIKITHKN QMPMLMGPPS

## Product Details

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**NSYNFFGFWS Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**Characteristics:** Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

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**Target:** DGKA

**Alternative Name:** Dgka ([DGKA Products](#))

**Background:** Diacylglycerol kinase alpha (DAG kinase alpha) (EC 2.7.1.107) (EC 2.7.1.93) (80 kDa diacylglycerol kinase) (Diglyceride kinase alpha) (DGK-alpha),FUNCTION: Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids. 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. Also plays an important role in the biosynthesis of complex lipids. Can also phosphorylate 1-alkyl-2-acylglycerol in vitro as efficiently as diacylglycerol provided it contains an arachidonoyl group. Also involved in the

## Target Details

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production of alkyl-lysophosphatidic acid, another bioactive lipid, through the phosphorylation of 1-alkyl-2-acetyl glycerol. {ECO:0000250|UniProtKB:P23743}.

Molecular Weight: 82.8 kDa

UniProt: [O88673](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition 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: 12 months