

Datasheet for ABIN7547071
DGKB Protein (AA 1-804) (His tag)



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Overview

Quantity:	1 mg
Target:	DGKB
Protein Characteristics:	AA 1-804
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKB protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat DGKB Protein expressed in mammalien cells.
Sequence:	MTNQEKW AHL SPSEFSQLQK YAEYSTK KKLK DVLEEFHGNG VLAKYNPEGK QDILNQ TIDF EGFKLFM KTF LEAELPDDFT AHLFMSFSNK FPHSSPMVKS KPALLSGGLR MNKGAITPPR TTSPANTCSP EVIHLKDIVC YLSLLERGRP EDKLEFMFRL YDTDNGGFLD SSELENIISQ MMHVAEYLEW DVTELNPI LH EMMEEIDYDH DGTVSLEEWI QGGMTTIPLL VLLGLENNVK DDGQHWRLK HFNKPAYCNL CLNMLIGVGK QGLCCSFCKY TVHERCVARA PPSCIPTYVK SKRNTDVMHH YWVEGNCPTK CDKCHKTVKC YQGLTGLHCV WCQITLHNKC ASHLKPECDC GPLKDHILPP TTICPVVLQT LPTSGVSVPE ERQSTVKKEK SGSQQPNKVI DKNKMQRANS VTVDGQGLQV TPVPGTHPLL VFNPKSGGK QGERIYRK FQ YLLNPRQVYS LSGNGPMPGL NFFRDVPDFR VLACGGDGTV GWVLD CIEKA NVGKHPPVAI LPLGTGNDLA RCLRWGGG YE GENLMKILKD IENSTEIMLD RWKFEVIPND KDEKGPVPY SIINNYFSIG VDASIAHRFH IMREKHPEKF NSRMKNKFWY FEFGTSETFS ATCKKLHESV EIECDGVQID LINISLEGIA

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ILNIPSMHGG SNLWGESKKR RSHRRIEKKG SDKRRTVTDA KELKFASQDL SDQLLEVVGL
EGAMEMGQIY TGLKSAGRRL AQCSCVVIRT SKSLPMQIDG EPWMQTPCTI KITHKNQAPM
LMGPPPKTGL FCSLVKRTRN RSKE **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.**

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, Western Blot

Grade:

custom-made

Target Details

Target:

DGKB

Alternative Name:

DGKB ([DGKB Products](#))

Background:

Diacylglycerol kinase beta (DAG kinase beta) (EC 2.7.1.107) (90 kDa diacylglycerol kinase) (Diglyceride kinase beta) (DGK-beta),FUNCTION: Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:11719522). 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). Has a higher activity with long-chain diacylglycerols like 1,2-di-(9Z-octadecenoyl)-sn-glycerol compared to 1,2-didecanoyl-sn-glycerol (By similarity). Specifically expressed in brain, it regulates neuron-

Target Details

specific morphological changes including neurite branching and neurite spine formation (By similarity). {ECO:0000250|UniProtKB:P49621, ECO:0000250|UniProtKB:Q6NS52, ECO:0000269|PubMed:11719522, ECO:0000305}, FUNCTION: [Isoform 2]: Does not associate with membranes but has a diacylglycerol kinase activity. {ECO:0000269|PubMed:11719522}.

Molecular Weight: 90.6 kDa

UniProt: [Q9Y6T7](#)

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.

Restrictions: For Research Use only

Handling

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