

Datasheet for ABIN7557945
DGKB Protein (AA 1-802) (His tag)



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Overview

Quantity:	1 mg
Target:	DGKB
Protein Characteristics:	AA 1-802
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKB protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Dgkb Protein expressed in mammalian cells.
Sequence:	MTNQEKWAHL SPSEFSQLQK YAEYSTKKLK DVLEEFHGNG VLAKYNPEGK QDILNQTIDF EGFKLFMKTF LEAELPDDFT AHLFMSFSNK FPHSSPNVKS KPALLSGGLR MNKGAITPPR SSPANTCSPE VIHLKDIVCY LSLLEGRPE DKLEFMFRLY DTDGNGFLDS SELENIIGQM MHVAEYLEWD VTELNILHE MMEEIDYDRD GTVSLEEWIQ GGMTTIPLLV LLGLENNVKD DGQHWRLKH FNKPAYCNLC LNMLIGVGKQ GLCCSFCKYT VHERCVARAP PSCIPTYVKS KKNTDVMHHY WVEGNCPTKC DKCHKTVKCY QGLTGLHCVW CQTLHNKCA SHLKPECDGG PLKDHLPPPT TICPVVLTMP SAGASVPEER QSTAKKEKSS SQQPNKATDK NKMQRANSVT MDGQGLQITP VPGTHPLLVF VNPKSGGKQG ERIYRKFQYL LNPRQVYSLG GNGPMPGLHF FRDVPDFRVL ACGGDGTVGW ILDCIEKANV VKHPPVAILP LGTGNDLARC LRWGGGYEGE NLMKILKDIE SSTEIMLDLW KFEVTPNDKD EKGDPVPYSI INNYFSIGVD ASIAHRFHIM REKHPEKFNS RMKNKFWYFE FGTSETFSAT CKKLHESVEI ECDGVQIDLI NISLEGAIL NIPSMHGGSN LWGESKSKRS HRRIEKKGSD KRPTLTDAKE LKFASQDLSD QLLEVVGLEG

Product Details

AMEMGQIYTG LKSAGRRLAQ CSSVIRTSK SLPMQIDGEP WMQTPCTIKI THKNQAPMLM
GPPPKTGLFC SLIKRTRNRS KE **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

Target: DGKB

Alternative Name: Dgkb ([DGKB Products](#))

Background: Diacylglycerol kinase beta (DAG kinase beta) (EC 2.7.1.107) (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:20657643). 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).

Target Details

Specifically expressed in brain, it regulates neuron-specific morphological changes including neurite branching and neurite spine formation (PubMed:20657643).
{ECO:0000250|UniProtKB:P49621, ECO:0000269|PubMed:20657643, ECO:0000305}.

Molecular Weight: 90.3 kDa

UniProt: [Q6NS52](#)

Application Details

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

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