

Datasheet for ABIN3123531
DGKB Protein (AA 1-802) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	DGKB
Protein Characteristics:	AA 1-802
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKB protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MTNQEKWAHL SPSEFSQLQK YAEYSTKKLK DVLEEFHGNG VLAKYNPEGK QDILNQITDF</p> <p>EGFKLFMKTF LEAELPDDFT AHLFMSFSNK FPHSSPNVKS KPALLSGGLR MNKGAITPPR</p> <p>SSPANTCSPE VIHLKDIVCY LSLLEGRPE DKLEFMFRLY DTDGNGFLDS SELENIIGQM</p> <p>MHVAEYLEWD VTELNPILHE MMEEIDYDRD GTVSLEEWIQ GGMTTIPLLV LLGLENNVKD</p> <p>DGQHWRLKH FNKPAYCNLC LNMLIGVGKQ GLCCSFCKYT VHERCVARAP PSCIPTYVKS</p> <p>KKNTDVMHHY WVEGNCPTKC DKCHKTVKCY QGLTGLHCVW CQTTLHNKCA SHLKPECDCG</p> <p>PLKDHIPLPT TICPVVLTMP SAGASVPEER QSTAKKEKSS SQQPNKATDK NKMQRANSVT</p> <p>MDGQGLQITP VPGTHPLLVF VNPKSGGKQG ERIYRKQYL LNPRQVYSLG GNGPMPGLHF</p> <p>FRDVPDFRVL ACGGDGTVGW ILDCIEKANV VKHPPVAILP LGTGNDLARC LRWGGGYEGE</p> <p>NLMKILKDIE SSTEIMLDRW KFEVTPNDKD EKGDVPYYSI INNYFSIGVD ASIAHRFHIM</p> <p>REKHPEKFNS RMKNKFWYFE FGTSETFSAT CKKLHESVEI ECDGVQIDLI NISLEGAIL</p>

NIPSMHGGSN LWGESKKRS HRRIEKKGSD KRPTLTDAKE LKFASQDLSD QLLEVVGLEG
AMEMGQIYTG LKSAGRRLAQ CSSVVRTSK SLPMQIDGEP WMQTPCTIKI THKNQAPMLM
GPPPKTGLFC SLIKRTRNRS KE

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 - 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 against its specific reference buffer.
- 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

Product Details

	System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	DGKB
Alternative Name:	Dgkb (DGKB Products)
Background:	<p>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). Specifically expressed in brain, it regulates neuron-specific morphological changes including neurite branching and neurite spine formation (PubMed:20657643).</p> <p>{ECO:0000250 UniProtKB:P49621, ECO:0000269 PubMed:20657643, ECO:0000305}.</p>
Molecular Weight:	90.3 kDa
UniProt:	Q6NS52

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>

Application Details

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.
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