

Datasheet for ABIN3078766 DGKG Protein (AA 1-791) (Strep Tag)



Overview

Quantity:	250 µg
Target:	DGKG
Protein Characteristics:	AA 1-791
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKG protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MGEERWVSLT PEEFDQLQKY SEYSSKKIKD ALTEFNEGGS LKQYDPHEPI SYDVFKLFMR
	AYLEVDLPQP LSTHLFLAFS QKPRHETSDH PTEGASNSEA NSADTNIQNA DNATKADEAC
	APDTESNMAE KQAPAEDQVA ATPLEPPVPR SSSSESPVVY LKDVVCYLSL LETGRPQDKL
	EFMFRLYDSD ENGLLDQAEM DCIVNQMLHI AQYLEWDPTE LRPILKEMLQ GMDYDRDGFV
	SLQEWVHGGM TTIPLLVLLG MDDSGSKGDG RHAWTMKHFK KPTYCNFCHI MLMGVRKQGL
	CCTYCKYTVH ERCVSRNIPG CVKTYSKAKR SGEVMQHAWV EGNSSVKCDR CHKSIKCYQS
	VTARHCVWCR MTFHRKCELS TLCDGGELRD HILLPTSICP ITRDRPGEKS DGCVSAKGEL
	VMQYKIIPTP GTHPLLVLVN PKSGGRQGER ILRKFHYLLN PKQVFNLDNG GPTPGLNFFR
	DTPDFRVLAC GGDGTVGWIL DCIDKANFAK HPPVAVLPLG TGNDLARCLR WGGGYEGGSL
	TKILKDIEQS PLVMLDRWHL EVIPREEVEN GDQVPYSIMN NYFSIGVDAS IAHRFHVMRE
	KHPEKFNSRM KNKLWYFEFG TSETFAATCK KLHDHIELEC DGVGVDLSNI FLEGIAILNI

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3078766 | 02/25/2025 | Copyright antibodies-online. All rights reserved. PSMYGGTNLW GENKKNRAVI RESRKGVTDP KELKFCVQDL SDQLLEVVGL EGAMEMGQIY TGLKSAGRRL AQCASVTIRT NKLLPMQVDG EPWMQPCCTI KITHKNQAPM MMGPPQKSSF FSLRRKSRSK D

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

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Product Details	
	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	DGKG
Alternative Name:	DGKG (DGKG Products)
Background:	Diacylglycerol kinase gamma (DAG kinase gamma) (EC 2.7.1.107) (Diglyceride kinase gamma) (DGK-gamma),FUNCTION: Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:8034597). 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 (By similarity). Has no apparent specificity with regard to the acyl compositions of diacylglycerol (PubMed:8034597). Specifically expressed in the cerebellum where it controls the level of diacylglycerol which in turn regulates the activity of protein kinase C gamma. Through protein kinase C gamma, indirectly regulates the dendritic development of Purkinje cells, cerebellar long term depression and ultimately cerebellar motor coordination (By similarity). {ECO:0000250 UniProtKB:Q91WG7, ECO:0000269 PubMed:8034597}.
Molecular Weight:	89.1 kDa
UniProt:	P49619
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:	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

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Application Details	
	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	
Format:	Liquid
Format: Buffer:	Liquid The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
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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.
Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles.