

Datasheet for ABIN3092082

DGKD Protein (AA 1-1214) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	DGKD
Protein Characteristics:	AA 1-1214
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKD protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MAAAAGAPPP GPPQPPPPPP PEESDSEPE AEPGSPQKLI RKVSTSGQIR QKTIIEGML TKQNSFQRS KRRYFKLRGR TLYYAKTAKS IIFDEVDLTD ASVAESSTKN VNNSFTVITP CRKLILCADN RKEMEDWIAA LKTQVQREHF EPTQYSMDHF SGMHNWYACS HARPTYCNVC REALSGVTSH GLSCEVCKFK AHKRC AVRAT NNCKWTTLAS IGKDIIEDAD GIAMPHQWLE GNLPVSAKCT VCDKTCGSLV RLQDWRC LWC KAMVHTSCKE SLLTKCPLGL CKVSVIPPTA LNSIDSDGFW KASCPPSCTS PLLVFVNSKS GDNQGVKFLR RFKQLLNPAQ VFDLMNGGPH LGLRLFQKFD TFRILVCGGD GSVGWVLSEI DSLNLHKQCQ LGVLPLGTGN DLARVLGWGS ACDDDTQLPQ ILEKLERAST KMLDRWSVMA YEAKLPRQAS SSTVTEDFSE DSEVQQILFY EDSVA AHL SK ILTSDQHSVV ISSAKVLCET VKDFVARVGK AYEKTTESSE ESEVMAKKCS VLKEKLD SLL KTLDD ESQAS SSLPNPPPTI AEEAEDGDGS GSICGSTGDR LVASACPARP QIFRPREQLM LRANSLKKAI RQIIHTEKA VDEQNAQTQE QEGFVLGLSE SEEKMDHRVC

PPLSHSESG VPKGRSQRKV SKSPCEKLIS KGSLSLGSSA SLPPQPGSRD GLPALNTKIL
YPNVRAGMSG SLPGGSVISR LLINADPFNS EPETLEYYTE KCVMMNNYFGI GLDAKISLDF
NNKRDEHPEK CRSRTKNMMW YGVLGTKELL HRTYKNLEQK VLLECDGRPI PLPSLQGIIV
LNIPSYAGGT NFWGGTKEDD TFAAPSFDDK ILEVAVFGS MQMAVSRVIR LQHHRIAQCR
TVKISILGDE GVPVQVDGEA WVQPPGYIRI VHKNRAQTLT RDRAFESTLK SWEDKQKCEL
PRPPSCSLHP EMLSEEEATQ MDQFGQAAGV LIHSIREIAQ SHRDMEQELA HAVNASSKSM
DRVYGKPRTT EGLNCSFVLE MVNNFRALRS ETELLLSGKM ALQLDPPQKE QLGSALAEMD
RQLRRLADTP WLCQSAEPGD EESVMLDLAK RSRSGKFRLV TKFKKEKNNK NKEAHSSLGA
PVHLWGTEEV AAWLEHLSLC EYKDIFTRHD IRGSELLHLE RRDLDKDLGVT KVGHMKRILC
GIKELSRAP AVEA

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!

Product Details

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

Target Details

Target:	DGKD
Alternative Name:	DGKD (DGKD Products)
Background:	<p>Diacylglycerol kinase delta (DAG kinase delta) (EC 2.7.1.107) (130 kDa diacylglycerol kinase) (Diglyceride kinase delta) (DGK-delta),FUNCTION: Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:12200442, PubMed:23949095). 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). By controlling the levels of diacylglycerol, regulates for instance the PKC and EGF receptor signaling pathways and plays a crucial role during development (By similarity). May also regulate clathrin-dependent endocytosis (PubMed:17880279).</p> <p>{ECO:0000250 UniProtKB:E9PUQ8, ECO:0000269 PubMed:12200442, ECO:0000269 PubMed:17880279, ECO:0000269 PubMed:23949095, ECO:0000305}.</p>
Molecular Weight:	134.5 kDa
UniProt:	Q16760
Pathways:	EGFR Signaling Pathway

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
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Application Details

guarantee though.

Comment:

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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