Datasheet for ABIN3092083

DGKH Protein (AA 1-1220) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	DGKH
Protein Characteristics:	AA 1-1220
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKH protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MAGAGGQHHP PGAAGGAAAG AGAAVTSAAA SAGPGEDSSD SEAEQEGPQK LIRKVSTSGQ IRTKTSIKEG QLLKQTSSFQ RWKKRYFKLR GRTLYYAKDS KSLIFDEVDL SDASVAEAST KNANNSFTII TPFRRLMLCA ENRKEMEDWI SSLKSVQTRE PYEVAQFNVE HFSGMHNWYA CSHARPTFCN VCRESLSGVT SHGLSCEVCK FKAHKRCAVR ATNNCKWTTL ASIGKDIIED EDGVAMPHQW LEGNLPVSAK CAVCDKTCGS VLRLQDWKCL WCKTMVHTAC KDLYHPICPL GQCKVSIIPP IALNSTDSDG FCRATFSFCV SPLLVFVNSK SGDNQGVKFL RRFKQLLNPA QVFDLMNGGP HLGLRLFQKF DNFRILVCGG DGSVGWVLSE IDKLNLNKQC QLGVLPLGTG NDLARVLGWG GSYDDDTQLP QILEKLERAS TKMLDRWSIM TYELKLPPKA SLLPGPPEAS EEFYMTIYED SVATHLTKIL NSDEHAVVIS SAKTLCETVK DFVAKVEKTY DKTLENAVVA DAVASKCSVL NEKLEQLLQA LHTDSQAAPV LPGLSPLIVE EDAVESSSEE SLGESKEQLG DDVTKPSSQK AVKPREIMLR ANSLKKAVRQ VIEEAGKVMD DPTVHPCEPA NQSSDYDSTE

TDESKEEAKD DGAKESITVK TAPRSPDARA SYGHSQTDSV PGPAVAASKE NLPVLNTRII CPGLRAGLAA SIAGSSIINK MLLANIDPFG ATPFIDPDLD SVDGYSEKCV MNNYFGIGLD AKISLEFNNK REEHPEKCRS RTKNLMWYGV LGTRELLQRS YKNLEQRVQL ECDGQYIPLP SLQGIAVLNI PSYAGGTNFW GGTKEDDIFA APSFDDKILE VVAIFDSMQM AVSRVIKLQH HRIAQCRTVK ITIFGDEGVP VQVDGEAWVQ PPGIIKIVHK NRAQMLTRDR AFESTLKSWE DKQKCDSGKP VLRTHLYIHH AIDLATEEVS QMQLCSQAAE ELITRICDAA TIHCLLEQEL AHAVNACSHA LNKANPRCPE SLTRDTATEI AINVKALYNE TESLLVGRVP LQLESPHEER VSNALHSVEV ELQKLTEIPW LYYILHPNED EEPPMDCTKR NNRSTVFRIV PKFKKEKVQK QKTSSQPVQK WGTEEVAAWL DLLNLGEYKD IFIRHDIRGA ELLHLERRDL KDLGIPKVGH VKRILQGIKE LGRSTPQSEV

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:	DGKH
Alternative Name:	DGKH (DGKH Products)
Background:	Diacylglycerol kinase eta (DAG kinase eta) (EC 2.7.1.107) (Diglyceride kinase eta) (DGK-eta),FUNCTION: Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:12810723, 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) (PubMed:12810723, PubMed:23949095). Plays a key role in promoting cell growth (PubMed:19710016). Activates the Ras/B-Raf/C-Raf/MEK/ERK signaling pathway induced by EGF (PubMed:19710016). Regulates the recruitment of RAF1 and BRAF from cytoplasm to membranes and their heterodimerization (PubMed:19710016). {ECO:0000269|PubMed:12810723, ECO:0000269|PubMed:19710016, ECO:0000269|PubMed:23949095, ECO:0000305}.
Molecular Weight:	134.9 kDa
UniProt:	Q86XP1

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.

Application Details

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 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
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