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



Image



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Overview

Quantity:	1 mg
Target:	DGKH
Protein Characteristics:	AA 1-1220
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKH protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 posttranslational 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade:

Crystallography grade

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

Target Details	
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.
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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.

-80 °C

Store at -80°C.

Unlimited (if stored properly)

Storage:

Expiry Date:

Storage Comment:



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process