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Datasheet for ABIN3092142 DGKZ Protein (AA 1-1117) (His tag)

Image



Overview

Quantity:	1 mg
Target:	DGKZ
Protein Characteristics:	AA 1-1117
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKZ protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	METFFRRHFR GKVPGPGEGQ QRPSSVGLPT GKARRRSPAG QASSSLAQRR RSSAQLQGCL
	LSCGVRAQGS SRRRSSTVPP SCNPRFIVDK VLTPQPTTVG AQLLGAPLLL TGLVGMNEEE
	GVQEDVVAEA SSAIQPGTKT PGPPPPRGAQ PLLPLPRYLR RASSHLLPAD AVYDHALWGL
	HGYYRRLSQR RPSGQHPGPG GRRASGTTAG TMLPTRVRPL SRRRQVALRR KAAGPQAWSA
	LLAKAITKSG LQHLAPPPPT PGAPCSESER QIRSTVDWSE SATYGEHIWF ETNVSGDFCY
	VGEQYCVARM LKSVSRRKCA ACKIVVHTPC IEQLEKINFR CKPSFRESGS RNVREPTFVR
	HHWVHRRRQD GKCRHCGKGF QQKFTFHSKE IVAISCSWCK QAYHSKVSCF MLQQIEEPCS
	LGVHAAVVIP PTWILRARRP QNTLKASKKK KRASFKRKSS KKGPEEGRWR PFIIRPTPSP
	LMKPLLVFVN PKSGGNQGAK IIQSFLWYLN PRQVFDLSQG GPKEALEMYR KVHNLRILAC
	GGDGTVGWIL STLDQLRLKP PPPVAILPLG TGNDLARTLN WGGGYTDEPV SKILSHVEEG
	NVVQLDRWDL HAEPNPEAGP EDRDEGATDR LPLDVFNNYF SLGFDAHVTL EFHESREANP
	EKFNSRFRNK MFYAGTAFSD FLMGSSKDLA KHIRVVCDGM DLTPKIQDLK PQCVVFLNIP

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	RYCAGTMPWG HPGEHHDFEP QRHDDGYLEV IGFTMTSLAA LQVGGHGERL TQCREVVLTT
	SKAIPVQVDG EPCKLAASRI RIALRNQATM VQKAKRRSAA PLHSDQQPVP EQLRIQVSRV
	SMHDYEALHY DKEQLKEASV PLGTVVVPGD SDLELCRAHI ERLQQEPDGA GAKSPTCQKL
	SPKWCFLDAT TASRFYRIDR AQEHLNYVTE IAQDEIYILD PELLGASARP DLPTPTSPLP
	TSPCSPTPRS LQGDAAPPQG EELIEAAKRN DFCKLQELHR AGGDLMHRDE QSRTLLHHAV
	STGSKDVVRY LLDHAPPEIL DAVEENGETC LHQAAALGQR TICHYIVEAG ASLMKTDQQG
	DTPRQRAEKA QDTELAAYLE NRQHYQMIQR EDQETAV
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human DGKZ Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. 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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	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.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	2. Protein containing fractions of the best purification are subjected to second purification step

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Product Details

	through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	DGKZ	
Alternative Name:	DGKZ (DGKZ Products)	
Background:	Displays a strong preference for 1,2-diacylglycerols over 1,3-diacylglycerols, but lacks substrate specificity among molecular species of long chain diacylglycerols. Isoform 2 but not isoform 1 regulates RASGRP1 activity. {ECO:0000269 PubMed:11257115}.	
Molecular Weight:	125.1 kDa Including tag.	
UniProt:	Q13574	
Pathways:	Myometrial Relaxation and Contraction	
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 gurantee though.	
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.	

Handling

Restrictions:

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

For Research Use only

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



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