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Datasheet for ABIN3127421 GCKR Protein (AA 1-587) (His tag)

Image



Overview

Quantity:	1 mg
Target:	GCKR
Protein Characteristics:	AA 1-587
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GCKR protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	MPSTKRYQHV IETPEPGEWE LSGYEAAVPI TEKSNPLTRN LDKADAEKIV QLLGQCDAEI
	FQEEGQIMPT YQRLYSESVL TTMLQVAGKV QEVLKEPDGG LVVLSGGGTS GRMAFLMSVS
	FNQLMKGLGQ KPLYTYLIAG GDRSVVASRE RTEDSALHGI EELKKVAAGK KRVVVIGISV
	GLSAPFVAGQ MDYCMDNTAV FLPVLVGFNP VSMARNDPIE DWRSTFRQVA ERMQKMQEKQ
	EAFVLNPAIG PEGLSGSSRM KGGSATKILL ETLLLAAHKT VDQGVVSSQR CLLEILRTFE
	RAHQVTYSQS SKIATLTKQV GISLEKKGHV HLVGWQTLGI IAIMDGVECI HTFGADFRDI
	RGFLIGDHND MFNQKDELSN QGPQFTFSQD DFLTSVLPSL TEIDTVVFIF TLDDNLAEVQ
	ALAERVREKS WNIQALVHST VGQSLPAPLK KLFPSLISIT WPLLFFDYEG SYVQKFQREL
	STKWVLNTRF SGQSKARCIE SLLQVIHFPQ PLSNDVRAAP ISCHVQVAHE KEKVIPTALL
	SLLLRCSITE AKERLAAASS VCEVVRSALS GPGQKRSIQA FGDPVVP
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

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 Characteristics: Made in Germany - from design to production - by highly experienced protein Mouse Gckr Protein (raised in Insect Cells) purified by multi-step, protein-sperence 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 you	ur 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 ord	lering custom
made proteins from other companies is that there is no financial obligation in ca	ase the protein
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 p	<i>o</i> , <i>o</i>
custom-made proteins, e.g. fees might apply for the expression plasmid, the first	
experiments or purification optimization).	
When you order this made-to-order protein you will only pay upon receival of the	e 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 absorbar	nce at 280nm.
The protein's absorbance will be measured in several dilutions and is measured specific reference buffer.	against its
The concentration of the protein is calculated using its specific absorption coef	fficient. We use
the Expasy's protparam tool to determine the absorption coefficient of each pro	otein.
Purification: Two step purification of proteins expressed in baculovirus infected SF9 insect of	cells:
 In a first purification step, the protein is purified from the cleared cell lysate us different His-tag capture materials: high yield, EDTA resistant, or DTT resistar fractions are analyzed by SDS-PAGE. 	-
 Protein containing fractions of the best purification are subjected to second p through size exclusion chromatography. Eluate fractions are analyzed by SDS Western blot. 	
Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Weste	ern Blot.
Sterility: 0.22 µm filtered	
Endotoxin Level: Protein is endotoxin free.	
Grade: Crystallography grade	

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Target Details

Target:	GCKR
Alternative Name:	Gckr (GCKR Products)
Background:	Inhibits glucokinase (GCK) by forming an inactive complex with this enzyme. The affinity of GCKR for GCK is modulated by fructose metabolites: GCKR with bound fructose 6-phosphate has increased affinity for GCK, while GCKR with bound fructose 1-phosphate has strongly decreased affinity for GCK and does not inhibit GCK activity (By similarity). {ECO:0000250}.
Molecular Weight:	65.6 kDa Including tag.
UniProt:	Q91X44
Pathways:	Carbohydrate Homeostasis, Regulation of Carbohydrate Metabolic Process, Protein targeting to Nucleus

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:	Protein has not been tested for activity yet. 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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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

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