

Datasheet for ABIN7547931
GCKR Protein (AA 1-625) (His tag)



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Overview

Quantity:	1 mg
Target:	GCKR
Protein Characteristics:	AA 1-625
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GCKR protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat GCKR Protein expressed in mammalien cells.
Sequence:	<p>MPGTKRFQHV IETPEPGKWE LSGYEAAVPI TEKSNPLTQD LDKADAENIV RLLGQCDAEI FQEEGQALST YQRLYSEIL TTMVQVAGKV QEVLKEPDGG LVLVSGGGTS GRMAFLMSVS FNQLMKGLGQ KPLYTYLIAG GDRSVVASRE GTEDSALHGI EELKKVAAGK KRVIVIGISV GLSAPFVAGQ MDCCMNNTAV FLPVLVGFNP VSMARNDPIE DWSSTFRQVA ERMQKMQEKG KAFVLNPAIG PEGLSGSSRM KGGSATKILL ETLLAAHKT VDQGIAASQR CLLEILRTFE RAHQVTYSQS PKIATLMKSV STSLEKKGHV YLVGWQTLGI IAIMDGVECI HTFGADFRDV RGFLIGDHSD MFNQKAELTN QGPQFTFSQE DFLTSILPSL TEIDTVVFIF TLDDNLTEVQ TIVEQVKEKT NHIQALAHST VGQTLPIPLK KLFPSIISIT WPLLFFEYEG NFIQKFQREL STKWVLNTVS TGAHVLLGKI LQNHMLDLRI SNSKLFWRAL AMLQRFSGQS KARCIESLLR AIHFPQPLSD DIRAAPISCH VQVAHEKEQV IPIALLSLLF RCSITEAQAH LAAAPSVCEA VRSALAGPGQ KRTADPLEIL EPDVQ Sequence without tag. The proposed Purification-Tag is</p>

based on experiences 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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	GCKR
Alternative Name:	GCKR (GCKR Products)
Background:	<p>Glucokinase regulatory protein (GKRP) (Glucokinase regulator),FUNCTION: Regulates glucokinase (GCK) by forming an inactive complex with this enzyme (PubMed:23621087, PubMed:23733961). Acts by promoting GCK recruitment to the nucleus, possibly to provide a reserve of GCK that can be quickly released in the cytoplasm after a meal (PubMed:10456334). 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 (PubMed:23621087, PubMed:23733961). {ECO:0000269 PubMed:10456334, ECO:0000269 PubMed:23621087, ECO:0000269 PubMed:23733961}.</p>
Molecular Weight:	68.7 kDa

Target Details

UniProt:	Q14397
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 guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months