

## Datasheet for ABIN7548361 Hexokinase 2 Protein (HK2) (AA 1-917) (His tag)



Overview

Quantity:	1 mg
Target:	Hexokinase 2 (HK2)
Protein Characteristics:	AA 1-917
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Hexokinase 2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant HK2 Protein expressed in mammalian cells.
Sequence:	MIASHLLAYF FTELNHDQVQ KVDQYLYHMR LSDETLLEIS KRFRKEMEKG LGATTHPTAA
	VKMLPTFVRS TPDGTEHGEF LALDLGGTNF RVLWVKVTDN GLQKVEMENQ IYAIPEDIMR
	GSGTQLFDHI AECLANFMDK LQIKDKKLPL GFTFSFPCHQ TKLDESFLVS WTKGFKSSGV
	EGRDVVALIR KAIQRRGDFD IDIVAVVNDT VGTMMTCGYD DHNCEIGLIV GTGSNACYME
	EMRHIDMVEG DEGRMCINME WGAFGDDGSL NDIRTEFDQE IDMGSLNPGK QLFEKMISGM
	YMGELVRLIL VKMAKEELLF GGKLSPELLN TGRFETKDIS DIEGEKDGIR KAREVLMRLG
	LDPTQEDCVA THRICQIVST RSASLCAATL AAVLQRIKEN KGEERLRSTI GVDGSVYKKH
	PHFAKRLHKT VRRLVPGCDV RFLRSEDGSG KGAAMVTAVA YRLADQHRAR QKTLEHLQLS
	HDQLLEVKRR MKVEMERGLS KETHASAPVK MLPTYVCATP DGTEKGDFLA LDLGGTNFRV
	LLVRVRNGKW GGVEMHNKIY AIPQEVMHGT GDELFDHIVQ CIADFLEYMG MKGVSLPLGF
	TFSFPCQQNS LDESILLKWT KGFKASGCEG EDVVTLLKEA IHRREEFDLD VVAVVNDTVG
	TMMTCGFEDP HCEVGLIVGT GSNACYMEEM RNVELVEGEE GRMCVNMEWG AFGDNGCLDD

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	FRTEFDVAVD ELSLNPGKQR FEKMISGMYL GEIVRNILID FTKRGLLFRG RISERLKTRG
	IFETKFLSQI ESDCLALLQV RAILQHLGLE STCDDSIIVK EVCTVVARRA AQLCGAGMAA
	VVDRIRENRG LDALKVTVGV DGTLYKLHPH FAKVMHETVK DLAPKCDVSF LQSEDGSGKG
	AALITAVACR IREAGQR Sequence without tag. The proposed Purification-Tag is 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different
	isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:
	<ul> <li>Made to order protein - from design to production - by highly experienced protein experts.</li> <li>Protein expressed in mammalian cells and purified in one-step affinity chromatography</li> <li>The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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.
	If you are not interested in a full length protein, please contact us for individual protein fragments.
	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 proteir cannot be expressed or purified.
urity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPL
rade:	custom-made
Farget Details	
Cargat:	Hovekingen 2 (HK2)

Target:	Hexokinase 2 (HK2)
Alternative Name:	HK2 (HK2 Products)
Background:	Hexokinase-2 (EC 2.7.1.1) (Hexokinase type II) (HK II) (Hexokinase-B) (Muscle form hexokinase),FUNCTION: Catalyzes the phosphorylation of hexose, such as D-glucose and D-
	fructose, to hexose 6-phosphate (D-glucose 6-phosphate and D-fructose 6-phosphate,
	respectively) (PubMed:23185017, PubMed:26985301, PubMed:29298880). Mediates the initial
	step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate

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## Target Details

	(PubMed:29298880). Plays a key role in maintaining the integrity of the outer mitochondrial
	membrane by preventing the release of apoptogenic molecules from the intermembrane space
	and subsequent apoptosis (PubMed:18350175). {ECO:0000269 PubMed:18350175,
	ECO:0000269 PubMed:23185017, ECO:0000269 PubMed:26985301,
	EC0:000269 PubMed:29298880}.
Molecular Weight:	102.4 kDa
UniProt:	P52789
Pathways:	PI3K-Akt Signaling, Carbohydrate Homeostasis, Warburg Effect
Application Details	
Application Notes:	We expect the protein to work for functional studies. 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.