

Datasheet for ABIN7562164

Hexokinase 2 Protein (HK2) (AA 1-917) (His tag)



Overview

Quantity:	1 mg
Target:	Hexokinase 2 (HK2)
Protein Characteristics:	AA 1-917
Origin:	Mouse
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:	MIASHMIACL FTELNQNQVQ KVDQYLYHMR LSDETLLEIS RRFRKEMEKG LGATTHPTAA
	VKMLPTFVRS TPDGTEHGEF LALDLGGTNF RVLRVRVTDN GLQRVEMENQ IYAIPEDIMR
	GSGTQLFDHI AECLANFMDK LQIKEKKLPL GFTFSFPCHQ TKLDESFLVS WTKGFKSSGV
	EGRDVVDLIR KAIQRRGDFD IDIVAVVNDT VGTMMTCGYD DQNCEIGLIV GTGSNACYME
	EMRHIDMVEG DEGRMCINME WGAFGDDGTL NDIRTEFDRE IDMGSLNPGK QLFEKMISGM
	YMGELVRLIL VKMAKAELLF QGKLSPELLT TGSFETKDVS DIEDDKDGIQ KAYQILVRLG
	LSPLQEDCVA THRICQIVST RSASLCAATL AAVLWRIKEN KGEERLRSTI GVDGSVYKKH
	PHFAKRLHKA VRRLVPDCDV RFLRSEDGSG KGAAMVTAVA YRLADQHRAR QKTLESLKLS
	HEQLLEVKRR MKVEMEQGLS KETHEAAPVK MLPTYVCATP DGTEKGDFLA LDLGGTNFRV
	LLVRVRNGKR RGVEMHNKIY SIPQEVMHGT GEELFDHIVQ CIADFLEYMG MKGVSLPLGF
	TFSFPCQQNS LDQSILLKWT KGFKASGCEG EDVVTLLKEA IRRREEFDLD VVAVVNDTVG
	TMMTCGYEDP HCEVGLIVGT GSNACYMEEM RNVELVDGEE GRMCVNMEWG AFGDNGCLDD

	LRTVFDVAVD ELSLNPGKQR FEKMISGMYL GEIVRNILID FTKRGLLFRG RISERLKTRG
	IFETKFLSQI ESDCLALLQV RAILRHLGLE STCDDSIIVK EVCTVVARRA AQLCGAGMAA
	VVDKIRENRG LDNLKVTVGV DGTLYKLHPH FAKVMHETVR DLAPKCDVSF LESEDGSGKG
	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:
	 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).
	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 protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC
Grade:	custom-made
Target Details	
Гarget:	Hexokinase 2 (HK2)
Alternative Name:	Hk2 (HK2 Products)
Background:	Hexokinase-2 (EC 2.7.1.1) (Hexokinase type II) (HK II),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) (By similarity). Mediates the
	initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate

Target Details

Expiry Date:

12 months

- Target Details	
	by preventing the release of apoptogenic molecules from the intermembrane space and subsequent apoptosis (PubMed:18350175). {ECO:0000250 UniProtKB:P27881, ECO:0000269 PubMed:18350175}.
Molecular Weight:	102.5 kDa
UniProt:	008528
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.