Datasheet for ABIN7560020

HKDC1 Protein (AA 1-915) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	HKDC1
Protein Characteristics:	AA 1-915
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HKDC1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Hkdc1 Protein expressed in mammalian cells.
Sequence:	MFAVHLVAFY FTKLKEDQIK KVDRFLYHMR LSDETLVDIM ARFQAEMEKG LGKDTNPTAS VKMLPTFVRA IPDGSENGEF LSLDLGGSKF RVLKVQVSQE GQQNVQMESQ FYPMPNEITR GNGTELFDYV ADCLADFMKT KNLTHKKLPL GFTFSFPCRQ NKLEEGVLLS WTKKFKARGV QDTDVVNRLA TAMKKHKDLD VDILALVNDT VGTMMTCAYD DPNCEVGVII GTGTNACYME DMSNIDLVEG DEGRMCINTE WGAFGDDGAL EDIRTEFDRE LDLGSLNPGK QLFEKMISGL YMGELVRLIL LKMAKVGLLF GGAKSSALHT KGKIETQHVA AMEMSKEGLA NTREILVDLG LEPSESDCIA VQHVCTIVSF RSANLCAAAL ATILTRLREN KKLARLRTTV GMDGTLYKTH PQYPKRLHKV VRRLVPNCDV RFLLSESGST KGAAMVTAVA SRVQAQRKQI DKVLALFQLT REQLLGVRDK MRAELEYGLK KKTHSLATVK MLPTYVYGMP DGTEKGKFLA LDLGGTNFRV LLVKIRRRSV RMYNKIFAIP LEIMQGTGEE LFDHIVQCIA DFLDYMGLKG AQLPLGFTFS FPCRQTCIDK GTLVGWTKGF KATDCEGEDV VDMLREAIKR RNEFDLDIVA IVNDTVGTMM TCGYEDPRCE IGLIAGTGSN VCYMEEMRNI ELVDGDEGRM CVNTEWGGFG DNGCIDDIRT

Product Details

QYDKEVDEGS LNAGKQRYEK MTSGMYLGEI VRRILIDLTR QGLLFRGQIS ERLRTRGIFE TKFLSQIESD RLALLQVRRI LQQLGLDSTC EDSIVVKEVC GAVSRRAAQM CGAGMAAIVE KRREDQGLQH FKVTVGVDGT LYKLHPHFSR ILQETVKELA PQCDVTFMLS EDGSGKGAAL ITAVAKRLQQ PRKDI **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:

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

Target:	HKDC1
Alternative Name:	Hkdc1 (HKDC1 Products)
Background:	Hexokinase HKDC1 (EC 2.7.1.1) (Hexokinase domain-containing protein 1),FUNCTION: Catalyzes the phosphorylation of hexose to hexose 6-phosphate, although at very low level compared to other hexokinases (By similarity). Has low glucose phosphorylating activity compared to other hexokinases (By similarity). Involved in glucose homeostasis and hepatic lipid accumulation (PubMed:30543855). Required to maintain whole-body glucose homeostasis

Target Details

during pregnancy, however additional evidences are required to confirm this role (PubMed:25648650, PubMed:27459389). {ECO:0000250|UniProtKB:Q2TB90, ECO:0000269|PubMed:25648650, ECO:0000269|PubMed:27459389, ECO:0000269|PubMed:30543855}.

Molecular Weight:	102.3 kDa
UniProt:	Q91W97

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.
Expiry Date:	12 months