Datasheet for ABIN3127336

HKDC1 Protein (AA 1-915) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	HKDC1
Protein Characteristics:	AA 1-915
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HKDC1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

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

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 Strep-Tag is based on experience s 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:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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 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:	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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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