

Datasheet for ABIN3135737

KDM2B Protein (AA 1-1309) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	KDM2B
Protein Characteristics:	AA 1-1309
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM2B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MEAEKDSGRR LRAIDRQRYD ENEDLSDVEE IVSVRGFSLE EKLRSQLYQG DFBHAMEGKD</p> <p>FNYEYVQREA LRVPLVFRDK DGLGIKMPDP DFTVRDVKLL VGSRRRLVDVM DVNTQKGTEM</p> <p>SMSQFVRYYE TPEAQRDKLY NVISLEFSHT KLEHLVKRPT VVDLVDWVDN MWPQHLKEKQ</p> <p>TEATNALAEM KYPKVKKYCL MSVKGCFDF HIDFGGTSVW YHVFRRGGKIF WLIPPTLHNL</p> <p>ALYEEWVLSG KQSDIFLGDR VERCQRIELK QGYTFFIPSG WIHAVYTPVD SLVFGGNILH</p> <p>SFNVPMQLRI YEIEDRTRVQ PKFRYPFYFE MCWYVLERYV YCVTQRSYLT QEYQREMLLI</p> <p>DAPRKTSVDG FSSDSWLDME EESCEQQPQE EEEEEEDKEE EGDGADKTPK PPTDDPTSPT</p> <p>STPPEDQDST GKKPKAPAIR FLKRTLSEES EESVKSTSMP TDDPKTPTGS PATEVSTKWT</p> <p>HLTEFELKGL KALVEKLESL PENKKCVPEG IEDPQALLEG VKNVLKEHVD DDPTLAITGV</p> <p>PVVSWPKKTA KNRVVGRPKG KLGPASAVKL AANRTTAGAR RRRTRCRKCE ACLRTEGEC</p> <p>HFCKDMKKFG GPGRMKQSCI MRQCIAPVLP HTAVCLVCGE AGKEDTVEEE EGKFNLMMLME</p>

CSICNEIIHP GCLKIKESEG VVNDELPCNW ECPKCNHAGK TGKQKRGPGF KYASNLPGSL
LKEQKMNRDN KEGQEPAKRR SECEEAPRRR SDEHPKKVPA DGILRRKSDD VHLRRKRKYE
KPQELSGRKR ASSLTSPGS SSHLSRPPL GSSLSPWWSR SLTYFQQQLK PGKEDKLFRK
KRRSWKNAED RLSLANKPLR RFKQEPEDDL PEAPPKTRES DQSRSSSPTA GPSTEGAEGP
EEKKVKMRR KRRLVNKELS KELSKELNHE IQKTESTLAH ESQQPIKSEP ESENDEPKRP
LSHCERPHRF SKGLNGTPRE LRHSLGPGLR SPPRVMSRPP PSASPPKCIQ MERHVIRPPP
ISPPPDLSLPL DDGAAHVMHR EVWMAVFSYL SHRDLCVCMR VCRTWNRWCC DKRLWTRIDL
NRCKSITPLM LSGIIRRPV SLDLSWTNIS KKQLSWLINR LPGLRDLVLS GCSWIAVSAL
CSSSCPLLRT LDVQWVEGLK DAQMRDLLSP PTDNRPQMD NRSKLRNIVE LRLAGLDITD
VSLRLIIRHM PLLSKLQSY CNHINDQSIN LLTAVGTTTR DSLTEVNLSD CNKVTDLCLS
FFKRCGNICH IDLRYCKQVT KEGCEQFAE MSVSVQFGQV EEKLLQKLS

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 -

Product Details

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.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	KDM2B
Alternative Name:	Kdm2b (KDM2B Products)
Background:	<p>Lysine-specific demethylase 2B (EC 1.14.11.27) (F-box and leucine-rich repeat protein 10) (F-box protein FBL10) (F-box/LRR-repeat protein 10) (JmjC domain-containing histone demethylation protein 1B) ([Histone-H3]-lysine-36 demethylase 1B),FUNCTION: Histone demethylase that demethylates 'Lys-4' and 'Lys-36' of histone H3, thereby playing a central role in histone code. Preferentially demethylates trimethylated H3 'Lys-4' and dimethylated H3 'Lys-36' residue while it has weak or no activity for mono- and tri-methylated H3 'Lys-36'.</p> <p>Preferentially binds the transcribed region of ribosomal RNA and represses the transcription of ribosomal RNA genes which inhibits cell growth and proliferation (By similarity). May also serve as a substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex (By similarity). {ECO:0000250 UniProtKB:Q8NHM5}.</p>
Molecular Weight:	149.7 kDa
UniProt:	Q6P1G2
Pathways:	Tube Formation , Warburg Effect

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
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Application Details

guarantee though.

Comment:

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Restrictions:

For Research Use only

Handling

Format:

Liquid

Buffer:

The buffer composition is at the discretion of the manufacturer.

Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice:

Avoid repeated freeze-thaw cycles.

Storage:

-80 °C

Storage Comment:

Store at -80°C.

Expiry Date:

12 months