



[Go to Product page](#)

Datasheet for ABIN3093374
KDM2B Protein (AA 1-1336) (Strep Tag)

Overview

Quantity:	1 mg
Target:	KDM2B
Protein Characteristics:	AA 1-1336
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM2B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MAGPQMGGSA EDHPPRKRHA AEKQKKKTVI YTKCFEFESA TQRPIDRQRY DENEDLSDVE
EIVSVRGFSL EEKLRSQLYQ GDFVHAMEGK DFNYEYVQRE ALRVPLIFRE KDGLGIKMPD
PDFTVRDVKL LVGSRRLLVDV MDVNTQKGTE MSMSQFVRYE ETPEAQRDKL YNVISLEFSH
TKLEHLVKRP TVVDLVDWVD NMWPQHLKEK QTEATNAIAE MKYPKVKKYC LMSVKGCFD
FHIDFGGTSV WYHVFRGGKI FWLIPPTLHN LALYEEWVLS GKQSDIFLGD RVERCQRIEL
KQGYTFFIPS GWIHAVYTPV DSLVFGGNIL HSFNVPMQLR IYEIEDRTRV QPKFRYPFYY
EMCWYVLERY VYCVTQRSHL TQEYQRESML IDAPRKPSID GFSSDSWLEM EEEACDQQPQ
EEEEKDEEGE GRDRAPKPPT DGSTSPTSTP SEDQEALGKK PKAPALRFLK RTLSNESEES
VKSTTLAVDY PKTPTGSPAT EVSAKWTHLT EFELKGLKAL VEKLESLEN KKCVPPEGIED
PQALLEGVKN VLKEHADDDP SLAITGVPV TWPKKTTPKNR AVGRPKGKLG PASAVKLAAN
RTTAGARRRR TRCRKCEACL RTECGECHFC KDMKKFGGPG RMKQSCIMRQ CIAPVLPHTA
VCLVCGEAGK EDTVEEEEGK FNLMLMECSI CNEIHPGCL KIKESEGVDN DELPNCWECP

KCNHAGKTGK QKRGPGFKYA SNLPGSLLKE QKMNRDNKEG QEPAKRRSEC EEAPRRRSDE
HKKVPPDGL LRRKSDDVHL RKKRKYEKPKQ ELSGRKRASS LQTSPGSSSH LSPRPPLGSS
LSPWWRSSLT YFQQQLKPGK EDKLFRRKRR SWKNAEDRMA LANKPLRRFK QEPEDELPEA
PPKTRESHRS RSSSPTAGPS TEGAEGPEEK KVKMRRKRR LPNKELSREL SKELNHEIQR
TENSLANENQ QPIKSEPESE GEEPKRPPGI CERPHRFSKG LNGTPREL RH QLGPSLRSP
RVISRPPPSV SPPKCIQMER HVIRPPPISP PPDSLPLDDG AAHVMHREVM MAVFSYLSHQ
DLCVCMRVCR TWRWCCDKR LWTRIDLNHC KSITPLMLSG IIRQPVSLD LSWTNISKKQ
LSWLINRLPG LRDVLVSGCS WIAVSALCSS SCPLLRTLDV QWVEGLKDAQ MRDLLSPPTD
NRPGQMDNRS KLRNIVELRL AGLDITDASL RLIRHMPLL SKLHLSYCNH VTDQSINLLT
AVGTTTRDSL TEINLSDCNK VTDQCLSFFK RCGNICHIDL RYCKQVTEG CEQFIAEMSV
SVQFGQVEEK LLQKLS

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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

Product Details

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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target: KDM2B

Alternative Name: KDM2B ([KDM2B Products](#))

Background: Lysine-specific demethylase 2B (EC 1.14.11.27) (CXXC-type zinc finger protein 2) (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) (Jumonji domain-containing EMSY-interactor methyltransferase motif protein) (Protein JEMMA) (Protein-containing CXXC domain 2) ([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 (PubMed:16362057, PubMed:17994099, PubMed:26237645). 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' (PubMed:16362057, PubMed:17994099, PubMed:26237645). Preferentially binds the transcribed region of ribosomal RNA and represses the transcription of ribosomal RNA genes which inhibits cell growth and proliferation (PubMed:16362057, PubMed:17994099). May also serve as a substrate-recognition component

Target Details

of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex (Probable).
{ECO:0000269|PubMed:16362057, ECO:0000269|PubMed:17994099,
ECO:0000269|PubMed:26237645, ECO:0000305}.

Molecular Weight: 152.6 kDa

UniProt: [Q8NHM5](#)

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 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!

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)