Datasheet for ABIN3136071

KDM5B Protein (AA 1-1544) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	KDM5B
Protein Characteristics:	AA 1-1544
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM5B protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	MEPATTLPPG PRPALPLGGP GPLGEFLPPP ECPVFEPSWE EFADPFAFIH KIRPIAEQTG ICKVRPPPDW QPPFACDVDK LHFTPRIQRL NELEAQTRVK LNFLDQIAKY WELQGSTLKI PHVERKILDL FQLNKLVAEE GGFAVVCKDR KWTKIATKMG FAPGKAVGSH IRGHYERILN PYNLFLSGDS LRCLQKPNLT SDTKDKEYKP HDIPQRQSVQ PAETCPPARR AKRMRAEAMN IKIEPEEATE ARTHNLRRRM GCTTPKWENE KEMKSTIKQE PTEKKDCELE SEKEKPKSRA KKTATAVDLY VCLLCGSGND EDRLLLCDGC DDSYHTFCLV PPLHDVPKGD WRCPKCLAQE CNKPQEAFGF EQAARDYTLR TFGEMADAFK SDYFNMPVHM VPTELVEKEF WRLVSTIEED VTVEYGADIA SKEFGSGFPV RDGKIKISPE EEEYLDSGWN LNNMPVMEQS VLAHITADIC GMKLPWLYVG MCFSSFCWHI EDHWSYSINY LHWGEPKTWY GVPGYAAEQL ENVMKKLAPE LFVSQPDLLH QLVTIMNPNT LMTHEVPVYR TNQCAGEFVI TFPRAYHSGF NQGFNFAEAV NFCTVDWLPL GRQCVEHYRL LHRYCVFSHD EMICKMASKA DVLDVVVAST VQKDMAIMIE DEKALRETVR KLGVIDSERM DFELLPDDER QCIKCKTTCF MSAISCSCKP GLLVCLHHVK

ELCSCPPYKY NLRYRYTLDD LYPMMNALKL RAESYNEWAL NVNEALEAKI NKKKSLVSFK ALIEESEMKK FPDNDLLRHL RLVTQDAEKC ASVAQQLLNG KRQTRYRSGG GKSQNQLTVN ELRQFVTQLY ALPCVLSQTP LLKDLLNRVE DFQQQSQKLL SEEMPSAAEL QELLDVSFEF DVELPQLTEM RIRLEQARWL EEVQQACLDS SSLSLDDMRR LIDLGVGLAP YSAVEKAMAR LQELLTVSEH WDDKAKSLLR ARPRHSLSSL ATAVKEMEEI PAYLPNGTVL KDSVQRARDW VQDVDALQAG GRVPVLETLI ELVARGRSIP VHLNSLPRLE MLVAEVHAWK ECAAKTFLPE NSTYSLLEVL CPRCDIGLLG LKRKQRKLKE PLPSGKKRST KLESLSDLER ALMESKETAA AMATLGEARL REMEALQSLR FANEEKLLSP VQDLEMKVCL CQKTPATPMI QCELCRDAFH TSCVAAPSIS QSSRIWLCPH CRRSEKPPLE KILPLLASLQ RIRVRLPEGD ALRYMIERTV NWQHRAQQLL SSGNLKLVQD QVGSGLLSSR WPASAGQASA TDKVSQPPGT TSFSLPDDWD NRTSYLHSPF STGQSCLPLH GLSPEVNELL MEAQLLQVSL PEIQELYQTL LTKPSSVQQA DRSSPVRSSS EKNDCLRGKR DAINSPERKL KRRPEREGLP SERWDRVKHM RTPQKKKIKL SHPKDMDSFK LERERSYDLV RNAETHSLPS DTSYSEQEDS EDEDAICPAV SCLQPEGDEV DWVQCDGSCN QWFHQVCVGV SPEMAEKEDY ICVRCTGKDA PSRK

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.

Product Details

- 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 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:	KDM5B
Alternative Name:	Kdm5b (KDM5B Products)
Background:	Lysine-specific demethylase 5B (EC 1.14.11.67) (Histone demethylase JARID1B) (Jumonji/ARID domain-containing protein 1B) (PLU-1) ([histone H3]-trimethyl-L-lysine(4) demethylase 5B),FUNCTION: Histone demethylase that demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9' or H3 'Lys-27'. Demethylates trimethylated, dimethylated and monomethylated H3 'Lys-4'. Acts as a transcriptional corepressor for FOXG1B and PAX9. Represses the CLOCK-BMAL1 heterodimer-mediated transcriptional activation of the core clock component PER2. {ECO:0000269|PubMed:17310255, ECO:0000269|PubMed:17320160, ECO:0000269|PubMed:21960634}.

Target Details

Molecular Weight:	175.6 kDa
UniProt:	Q80Y84
Pathways:	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)