

Datasheet for ABIN3136071

KDM5B Protein (AA 1-1544) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	KDM5B
Protein Characteristics:	AA 1-1544
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM5B protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MEPATTLPPG PRPALPLGGP GPLGEFLPPP ECPVFEPSWE EFADPFAFIH KIRPIAEQTG ICKVRPPPDW QPPFACDVKD LHFTPRIQRL NELEAQTRVK LNFLDQIAKY WELQGSTLKI PHVERKILD L FQNLKLVAAE GGFVAVCKDR KWTKIATKMG FAPGKAVGSH IRGHYERILN PYNLFLSGDS LRCLQKPNLT SDKDKEYKP HDIPQRQSVQ PAETCPPARR AKRMRAEAMN IKIEPEEATE ARTHNLRRRM GCTTPKWENE KEMKSTIKQE PTEKKDCELE SEKEKPKSRA KKTATAVDLY VCLLCGSGND EDRLLLCDGC DDSYHTFCLV PPLHDPVKGD WRCPKCLAQE CNKPQEAFGF EQAARDYTLR TFGEMADAFK SDYFNMPVHM VPTELVEKEF WRLVSTIEED VTVEYGADIA SKEFGSGFPV RDGKIKISPE EEEYLD SGWN LNNMPVMEQS VLAHITADIC GMKLPWLYVG MCFSSFCWHI EDHWSYSINY LHWGEPKTYW GVPGYAAEQ L ENVMKKLAPE LFVSQPDLLH QLVTIMNPNT LMTHEVPVYR TNQCAGEFVI TFPRAYHSGF NQGFNFAEAV NFCTVDWLPL GRQCVEHYRL LHRVCVFSHD EMICKMASKA DVLDVVVAST VQKDMAIMIE DEKALRETVR KLGVIDSERM DFELLPDDER QCIKCKTTCF MSAISCCKP GLLVCLHHVK
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ELCSCPPYKY NLRYYRTLDD LYPMMNALKL RAESYNEWAL NVNEALEAKI NKKKSLVSFK
ALIEESEMKK FPDNDLLRHL RLVTQDAEKC ASVAQQLNG KRQTRYRSGG GKSQNQLTVN
ELRQFVTQLY ALPCVLSQTP LLKDLLNRVE DFQQSQKLL SEEMPSAAEL QELLDVSFEF
DVELPQLTEM RIRLEQARWL EEVQQACLD SSSLDDMRR 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
TSCVAAPSISS QSSRIWLCPH CRRSEKPPLE KILPLLASLQ RIRVRLPEGD ALRYMIERTV
NWQHRAQQLL SSGNLKLVQD QVGSGLLSSR WPASAGQASA TDKVSQPPGT TSFSLPDDWD
NRTSYLHSPF STGQSCLPLH GLSPEVNELL MEAQLLQVSL PEIQELYQTL LTKPSSVQQA
DRSSPVRSSS EKNDCLRGKR DAINSPERKL KRRPEREGLP SERWDRVKHM RTPQKKIKIL
SHPKDMDSFK LERERSYDLV RNAETHSLPS DTSYSEQEDS EDEDAICPAV SCLQPEGDEV
DWVQCDGSCN QWFHQVCVGV SPEMAEKEDY ICVRCTGKDA PSRK

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Kdm5b Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

Product Details

	The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	<p>Two step purification of proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	KDM5B
Alternative Name:	Kdm5b (KDM5B Products)
Background:	<p>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-ARNTL/BMAL1 heterodimer-mediated transcriptional activation of the core clock component PER2.</p> <p>{ECO:0000269 PubMed:17310255, ECO:0000269 PubMed:17320160, ECO:0000269 PubMed:21960634}.</p>
Molecular Weight:	176.5 kDa Including tag.
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.
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Application Details

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process