

Datasheet for ABIN7554269  
**KDM1B Protein (AA 1-822) (His tag)**



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## Overview

Quantity:	1 mg
Target:	KDM1B
Protein Characteristics:	AA 1-822
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM1B protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant KDM1B Protein expressed in mammalian cells.
Sequence:	MATPRGRTRKK KASFDHSPDS LPLRSSGRQA KKKATETTDE DEDGGSEKKY RKCEKAGCTA TCPVCFASAS ERCAKNGYTS RWHYHLSCGEH FCNECFDHYY RSHKDG YDKY TTWKKIWTSN GKTEPSPKAF MADQQLPYWV QCTKPECRW RQLTKEIQLT PQIAKTYRCG MKPNTAIKPE TSDHCSLPED LRVLEVS NHW WYSMLILPPL LKDSVAAPLL SAYYPDCVGM SPSCTSTNRA AATGNASPGK LEHKAALSV HVPGMNRYFQ PFYQPNECGK ALCVRPDVME LDELYEFPEY SRDPTMYLAL RNLILALWYT NCKEALTPQK CIPHIIVRGL VRIRCVQVEVE RILYFMTRKG LINTGVLSVG ADQYLLPKDY HNKSVIII GA GPAGLAAARQ LHNFGIKVTV LEAKDRIGGR VWDDKSFKGV TVGRGAQIVN GCINNPVALM CEQLGISMHK FGERCDLIQE GGRITDPTID KRMDHFHFNAL LDVVSEWRKD KTQLQDVPLG EKIEEIYKAF IKESGIQFSE LEGQVLQFHL SNLEYACGSN LHQVSARSWD HNEFFAQFAG DHTLLTPGYS VIEKLAEGL DIQLKSPVQC IDYSGDEVQV TTTDGTG YSA QKVLVTVPLA LLQKGAIQFN PPLSEKKMKA INSLGAGIIE KIALQFPYRF WDSKVQGADF FGHVPPSASK RGLFAVFYDM DPQKKHSVLM SVIAGEAVAS

## Product Details

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VRTLDDKQVL QQCMATLREL FKEQEVDPPT KYFVTRWSTD PWIQMAYSFV KTGGSGEAYD  
IIAEDIQGTV FFAGEATNRH FPQTVTGYL SGVREASKIA AF **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

## Target Details

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Target: KDM1B

Alternative Name: KDM1B ([KDM1B Products](#))

Background: Lysine-specific histone demethylase 2 (EC 1.14.99.66) (Flavin-containing amine oxidase domain-containing protein 1) (Lysine-specific histone demethylase 1B),FUNCTION: Histone demethylase that demethylates 'Lys-4' of histone H3, a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor. Required for de novo DNA methylation of a subset of imprinted genes during oogenesis. Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. Demethylates both

## Target Details

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mono- and di-methylated 'Lys-4' of histone H3. Has no effect on tri-methylated 'Lys-4', mono-, di- or tri-methylated 'Lys-9', mono-, di- or tri-methylated 'Lys-27', mono-, di- or tri-methylated 'Lys-36' of histone H3, or on mono-, di- or tri-methylated 'Lys-20' of histone H4. Alone, it is unable to demethylate H3K4me on nucleosomes and requires the presence of GLYR1 to achieve such activity, they form a multifunctional enzyme complex that modifies transcribed chromatin and facilitates Pol II transcription through nucleosomes (PubMed:30970244).

{ECO:0000269|PubMed:23260659, ECO:0000269|PubMed:23357850, ECO:0000269|PubMed:30970244}.

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Molecular Weight: 92.1 kDa

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UniProt: [Q8NB78](#)

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Pathways: [Warburg Effect](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months