

Datasheet for ABIN7554272  
**KDM5D Protein (AA 1-1539) (His tag)**



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## Overview

Quantity:	1 mg
Target:	KDM5D
Protein Characteristics:	AA 1-1539
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM5D protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant KDM5D Protein expressed in mammalian cells.
Sequence:	<p>MEPGCDEFLP PPECPVFEPS WAEFQDPLGY IAKIRPIAEK SGICKIRPPA DWQPPFAVEV DNFRFTPRVQ RLNELEAQTR VKLNYLDQIA KFWEIQGSSL KIPNVERKIL DLYSLSKIVI EEGGYEAICK DRRWARVAQR LHYPGKNG SLLRSHYERI IYPYEMFQSG ANHVQCNTHP FDNEVKDKEY KPHSIPLRQS VQPSKFSSYS RRAKRLQPDP EPTIEDIEKH PELKKLQIYG PGPKMMGLGL MAKDKDKTVH KKVTCPTVT VKDEQSGGGN VSSTLLKQHL SLEPCTKTTM QLRKNHSSAQ FIDSYICQVC SRGDEDDKLL FCDGCDDNYH IFCLLPPLPE IPRGIWRCPK CILAECKQPP EAFGFEQATQ EYSLQSFEM ADSFKSDYFN MPVHVMPTTEL VEKEFWRLVS SIEDVTVEY GADIHSKEFG SGFPVNSKQ NLSPEEKEYA TSGWNLNVMP VLDQSVLCHI NADISGMKVP WLYVGMVFS FWHIEDHWS YSINYLHWGE PKTWYGVPSL AAHLEEVMMK MLTPELFDSQ PDLLHQLVTL MNPNTLMSHG VPVVRTNQCA GEFVITFPRA YHSGFNQGYN FAEAVNFACTA DWLPAGRQCI EHYRRLRRYC VFSHEELICK MAAFPELTLDL NLAVAVHKEM FIMVQEERRL RKALLEKGV T EAEREAFELL PDDERQCIK KTTCFLSALA CYDCPDGLVC</p>

LSHINDLCKC SSSRQYLRYR YTLDELPTML HKLKIRAESF DTWANKVRVA LEVEDGRKRS  
FEELRALESE ARERRFPNSE LLQRLKNCLS EVEACIAQVL GLVSGQVARM DTPQLTLTEL  
RVLLEQMGSL PCAMHQIGDV KDVLEQVEAY QAEAREALAT LPSSPGLLRS LLERGQQLGV  
EVPEAHQLQQ QVEQAQWLDE VKQALAPSAH RGSVLIMQGL LVMGAKIASS PSVDKARAE  
QELLTIAERW EEKAHFCLEA RQKHPPATLE AIIRETENIP VHLPNIQALK EALTKAQAWI  
ADVDEIQNGD HYPCLDDLEG LVAVGRDLPV GLEELRQLEL QVLAHSWRE KASKTFLKKN  
SCYTLLEVLC PCADAGSDST KRSRWMEKAL GLYQCDELL GLSAQDLRDP GSVIVAFKEG  
EQKEKEGILQ LRRNTSAKPS PLAPSLMASS PTSICVCGQV PAGVGVQLQCD LCQDWFHGQC  
VSVPHLLTSP KPSLTSSPLL AWWEWDTKFL CPLCMRSRRP RLETILALLV ALQRLPVRP  
EGEALQCLTE RAIGWQDRAR KALASEDVTA LLRQLAELRQ QLQAKPRPEE ASVYTSATAC  
DPIREGSGNN ISKVQGLLEN GDSVTSPENM APGKGSDEL LSSLLPQLTG PVLELPEAIR  
APLEELMMEG DLLEVTLDEN HSIWQLLQAG QPPDLDRIRT LLELEKFEHQ GSRTRSRALE  
RRRRRQKVDQ GRNVENLVQQ ELQSKRARSS GIMSQVGREE EHYQEKADRE NMFLTPSTDH  
SPFLKGNQNS LQHKDSGSSA ACPSLMPLLQ LSYSDEQQL **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.**

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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.

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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.

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

## Product Details

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Grade: custom-made

## Target Details

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Target: KDM5D

Alternative Name: KDM5D ([KDM5D Products](#))

Background: Lysine-specific demethylase 5D (EC 1.14.11.67) (Histocompatibility Y antigen) (H-Y) (Histone demethylase JARID1D) (Jumonji/ARID domain-containing protein 1D) (Protein SmcY) ([histone H3]-trimethyl-L-lysine(4) demethylase 5D),FUNCTION: Histone demethylase that specifically demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9', H3 'Lys-27', H3 'Lys-36', H3 'Lys-79' or H4 'Lys-20'. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-4'. May play a role in spermatogenesis. Involved in transcriptional repression of diverse metastasis-associated genes, in this function seems to cooperate with ZMYND8. Suppresses prostate cancer cell invasion. Regulates androgen receptor (AR) transcriptional activity by demethylating H3K4me3 active transcription marks. {ECO:0000269|PubMed:17320160, ECO:0000269|PubMed:17320162, ECO:0000269|PubMed:17351630, ECO:0000269|PubMed:26747897, ECO:0000269|PubMed:27185910, ECO:0000269|PubMed:27427228, ECO:0000269|PubMed:27477906}.

Molecular Weight: 174.1 kDa

UniProt: [Q9BY66](#)

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.

Restrictions: For Research Use only

## Handling

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Format: Liquid

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

Handling Advice: Avoid repeated freeze-thaw cycles.

## Handling

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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