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Datasheet for ABIN3093323
KDM5D Protein (AA 1-1539) (Strep Tag)

Overview

Quantity:	1 mg
Target:	KDM5D
Protein Characteristics:	AA 1-1539
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM5D protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MEPGCDEFLP PPECVPFEPS WAEFQDPLGY IAKIRPIAEK SGICKIRPPA DWQPPFAVEV
DNFRFTPRVQ RLNELEAQTR VKLNYLDQIA KFEIQGSSL KIPNVERKIL DLYSLSKIVI
EEGGYEAICK DRRWARVAQR LHYPGKNGI SLLRSHYERI IYPYEMFQSG ANHVQCNTHP
FDNEVKDKEY KPHSIPLRQS VQPSKFSSYS RRAKRLQDPD EPTEEDIEKH PELKKLQIYG
PGPKMMGLGL MAKDKDKTVH KKVTCPTVT VKDEQSGGGN VSSTLLKQHL SLEPCTKTTM
QLRKNHSSAQ FIDSYICQVC SRGDEDDKLL FCDGCDDNYH IFCLLPPLPE IPRGIWRCPK
CILAECKQPP EAFGFEQATQ EYSLQSFEM ADSFKSDYFN MPVHMPVTEL VEKEFWRLVS
SIEEDVTVEY GADIHSKEFG SGFPVSNKQ NLSPEEKEYA TSGWNLNVMP VLDQSVLCHI
NADISGMKVP WLYVGMVFS A FCWHIEDHWS YSINYLHWGE PKTWYGVPSL AAHLEEVMMK
MLTPELFDSQ PDLLHQLVTL MNPNTLMSHG VPVVRTNQCA GEFVITFPRA YHSGFNQGYN
FAEAVNFCTA DWLPAGRQCI EHYRRLRRYC VFSHEELICK MAAFPELTDL NLAVAVHKEM
FIMVQEERRL RKALLEKGV T EAEREAFELL PDDERQCIK KTTCFLSALA CYDCPDGLVC

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 QVLTAHSWRE KASKTFLKKN
SCYTLLEVLPCADAGSDST KRSRWMEKAL GLYQCDELL GLSAQDLRDP GSVIVAFKEG
EQKEKEGILQ LRRNTSAKPS PLAPSLMASS PTSICVCGQV PAGVGVLQCD 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 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®): <ol style="list-style-type: none">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.
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Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
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Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
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Target Details

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

Target Details

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

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.

Handling

Expiry Date: Unlimited (if stored properly)