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Datasheet for ABIN3133997
KDM5C Protein (AA 1-1554) (Strep Tag)

Overview

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| Quantity: | 1 mg |
| Target: | KDM5C |
| Protein Characteristics: | AA 1-1554 |
| Origin: | Mouse |
| Source: | Tobacco (<i>Nicotiana tabacum</i>) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This KDM5C protein is labelled with Strep Tag. |
| Application: | Western Blotting (WB), ELISA, SDS-PAGE (SDS) |

Product Details

Sequence: MELGSDDFLP PPECPVFEPS WAEFRDPLGY IAKIRPIAEK SGICKIRPPA DWQPPFAVEV
DNFRFTPRIQ RLNELEAQTR VKLNYLDQIA KFWEIQGSSL KIPNVERRIL DLYSLSKIVV
EEGGYETICK DRRWARVAQR LNYPPGKNIG SLLRSHYERI VYPYEMYQSG ANLVQCINTRP
FDNEEKDKEY KPHSIPLRQS VQPSKFNSYG RRAKRLQDPD EPTTEEDIEKN PELKKLQIYG
AGPKMMGLGL MAKDKTLRKK DKEGPECPPT VVVKEELGGD VKMESTSPKT FLEGKEELSH
SPEPCTKMTM RLRRNHSNAQ FIESYVCRMV SRGDEDDKLL LCDGCDDNYH IFCLLPPLPE
IPKGVWRCPK CVMAECKRPP EAFGFEQATR EYTLQSFEM ADSFKADYFN MPVHVMVPTL
VEKEFWRLVN SIEEDVTV EY GADIHSKEFG SGFPVSDSKR HLTPEEEEEYA TSGWNLNVMP
VLEQSVLCHI NADISGMKVP WLYVGMVFSA FCWHIEDHWS YSINYLHWGE PKTWYGVPSL
AAEHLEEVMM KLTPELFDSQ PDLLHQLVTL MNPNTLMSHG VPVVRTNQCA GEFVITFPRA
YHSGFNQGYN FAEAVNFCTA DWLPAGRQCI EHYRRLRRYC VFSHEELICK MAACPEKLDL
NLAAAVHKEM FIMVQEERRL RKALLEKGIT EAEREAFELL PDDERQCIKC KTTCFLSALA

CYDCPDGLVC LSHINDLCKC SSSRQYLRYR YTLDELPAML HKLKVRAESF DTWANKVRVA
LEVEDGRKRS LEELRALESE ARERRFPNSE LLQRLKNCLS EAEACVSRAL GLVSGQEAGP
DRVAGLQMTL AELRDFLGQM NNLPCAMHQI GDVKGILEQV EAYQTEAREA LVSQPSSPGL
LQSLLEGGQQ LGVEVPEAQQ LQRQVEQARW LDEVKRTLAP SARRGTLAIM RGLLVAGASV
APSPAVDKAQ AELQELLTIA ERWEEKAHLC LEARQKHPPA TLEAIIHEAE NIPVHLPNIQ
SLKEALAKAR AWIADVDEIQ NGDHYPCLDD LEGLVAVGRD LPVGGLELRQ LELQVLTAHS
WREKASKTFL KKNSCYTLE VLCPCADAGS DSTKRSRWME KELGLYKSDT ELLGLSAQDL
RDPGVSIVAF KEGEQKEKEG ILQLRRTNSA KPSPLALLTT ASSTASICVC GQVPAGVGAL
QCDLCQDWFH GRCVTVPRLL SSQRSSLPSS PLLAWWEWDT KFLCPLCMRS RRPRLTILA
LLVALQRLPV RLPEGEALQC LTERAISWQG RARQVLASEE VTALLGRLAE LRQLQAESK
PEESLAYPSD GGEGTGNMPK VQGLENGDS VTSPEKVATE EGSGKRDLEL LSSILPQLSG
PVLELPEATR APLEELMMEG DLLEVTLDEN HSIWQLLQAG QPPDLKRVQT LLELEKAERH
GSRTTRGRALE RRRRRKVD RG GEPDDPAREE LEPKRVRSSG PEAEVQEEEE ELEEETGGEV
PPVFPNSGS PSIQEDQDGL EPVLEAGSDT SAPFSTLTSR LLMSCPQQPS LQQL

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.

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| 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

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| Target: | KDM5C |
| Alternative Name: | Kdm5c (KDM5C Products) |
| Background: | Lysine-specific demethylase 5C (EC 1.14.11.67) (Histone demethylase JARID1C) (Jumonji/ARID domain-containing protein 1C) (Protein SmcX) (Protein Xe169) ([histone H3]-trimethyl-L-lysine(4) demethylase 5C),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'. Participates in transcriptional repression of neuronal genes by recruiting histone deacetylases and REST at neuron-restrictive silencer elements (By similarity). Represses the CLOCK-BMAL1 heterodimer-mediated transcriptional activation of the core clock component PER2. |

Target Details

{ECO:0000250|UniProtKB:P41229, ECO:0000269|PubMed:21960634}.

Molecular Weight: 175.3 kDa

UniProt: [P41230](#)

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)