



[Go to Product page](#)

Datasheet for ABIN3093322

KDM4C Protein (AA 1-1056) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	KDM4C
Protein Characteristics:	AA 1-1056
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM4C protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence: MEVAEVESPL NPSCKIMTFR PSMEEFREFN KYLAYMESKG AHRAGLAKVI PPKIEWKPRQC
YDDIDNLLIP APIQQMVTGQ SGLFTQYNIQ KKAMTVKEFR QLANSWKYCT PRYLDYEDLE
RKYWKNLTFV APIYGADING SIYDEGVDEW NIARLNTVLD VVEECCGSI EGVNTPYLYF
GMWKTTFAWH TEDMDLYSIN YLHFGEPKSW YAIPPEHGKR LERLAQGFFP SSSQGCDAFL
RHKMTLISPS VLKKGIPFD KITQEAGEFM ITFPYGYHAG FNHGFNCAES TNFATVRWID
YGVKAKLCTC RKDMVKISMD IFVRKFQPDR YQLWKQGKDI YTIDHTKPTP ASTPEVKAWL
QRRRKVRKAS RSFQCARSTS KRPKADEEEEE VSDEVDGAEV PNPDSVTDDL KVSEKSEAAV
KLRNTEASSE EESSASRMQV EQNLSDHIKL SGNSCLSTSV TEDIKTEDDK AYAYRSVPSI
SSEADDSIPL SSGYEKPEKS DPSELSWPKS PESCSVAES NGVLTEGEES DVESHGNGLE
PGEIPAVPSG ERNSFKVPSI AEGENKTSKS WRHPLSRPPA RSPMTLVKQQ APSDEELPEV
LSIEEEVEET ESWAKPLIHL WQTKSPNFAA EQEYNATVAR MKPHCAICTL LMPYHKPDSS
NEENDARWET KLDEVVTSEG KTKPLIPEMC FIYSEENIEY SPPNAFLEED GTSLLLISCAK

CCVRVHASCY GIPSHEICDG WLCARCKRNA WTAECCLCNL RGGALKQTKN NKWAHVMCAV
AVPEVRFTNV PERTQIDVGR IPLQRLKLC IFCRHRVKRV SGACIQCSYG RCPASFHVTC
AHAAGVLMPEP DDWPYVVNIT CFRHKVNPV KSKACEKVIS VGQTVITKHR NTRYYSRVM
AVTSQTFYEV MFDDGSFSRD TFPEDIVSRD CLKLGPPAEG EVVQVKWPDG KLYGAKYFGS
NIAHMYQVEF EDGSQIAMKR EDIYTLDEEL PKRVKARFST ASDMRFEDTF YGADIIQGER
KRQRLSSRF KNEYVADPVY RTFLKSSFQK KCQKRQ

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.
- 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.

Product Details

- 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.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	KDM4C
Alternative Name:	KDM4C (KDM4C Products)
Background:	Lysine-specific demethylase 4C (EC 1.14.11.66) (Gene amplified in squamous cell carcinoma 1 protein) (GASC-1 protein) (JmjC domain-containing histone demethylation protein 3C) (Jumonji domain-containing protein 2C) ([histone H3]-trimethyl-L-lysine(9) demethylase 4C),FUNCTION: Histone demethylase that specifically demethylates 'Lys-9' and 'Lys-36' residues of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27' nor H4 'Lys-20'. Demethylates trimethylated H3 'Lys-9' and H3 'Lys-36' residue, while it has no activity on mono- and dimethylated residues. Demethylation of Lys residue generates formaldehyde and succinate. {ECO:0000269 PubMed:16603238, ECO:0000269 PubMed:28262558}.
Molecular Weight:	120.0 kDa
UniProt:	Q9H3R0
Pathways:	Nuclear Hormone Receptor Binding , 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)



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