Datasheet for ABIN3093322

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

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Overview

Quantity:	250 µg
Target:	KDM4C
Protein Characteristics:	AA 1-1056
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM4C protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MEVAEVESPL NPSCKIMTFR PSMEEFREFN KYLAYMESKG AHRAGLAKVI PPKEWKPRQC YDDIDNLLIP APIQQMVTGQ SGLFTQYNIQ KKAMTVKEFR QLANSGKYCT PRYLDYEDLE RKYWKNLTFV APIYGADING SIYDEGVDEW NIARLNTVLD VVEEECGISI EGVNTPYLYF GMWKTTFAWH TEDMDLYSIN YLHFGEPKSW YAIPPEHGKR LERLAQGFFP SSSQGCDAFL RHKMTLISPS VLKKYGIPFD KITQEAGEFM ITFPYGYHAG FNHGFNCAES TNFATVRWID YGKVAKLCTC RKDMVKISMD IFVRKFQPDR YQLWKQGKDI YTIDHTKPTP ASTPEVKAWL QRRRKVRKAS RSFQCARSTS KRPKADEEEE VSDEVDGAEV PNPDSVTDDL KVSEKSEAAV KLRNTEASSE EESSASRMQV EQNLSDHIKL SGNSCLSTSV TEDIKTEDDK AYAYRSVPSI SSEADDSIPL SSGYEKPEKS DPSELSWPKS PESCSSVAES NGVLTEGEES DVESHGNGLE PGEIPAVPSG ERNSFKVPSI AEGENKTSKS WRHPLSRPPA RSPMTLVKQQ APSDEELPEV LSIEEEVEET ESWAKPLIHL WQTKSPNFAA EQEYNATVAR MKPHCAICTL LMPYHKPDSS

NEENDARWET KLDEVVTSEG KTKPLIPEMC FIYSEENIEY SPPNAFLEED GTSLLISCAK CCVRVHASCY GIPSHEICDG WLCARCKRNA WTAECCLCNL RGGALKQTKN NKWAHVMCAV AVPEVRFTNV PERTQIDVGR IPLQRLKLKC IFCRHRVKRV SGACIQCSYG RCPASFHVTC AHAAGVLMEP DDWPYVVNIT CFRHKVNPNV KSKACEKVIS VGQTVITKHR NTRYYSCRVM AVTSQTFYEV MFDDGSFSRD TFPEDIVSRD CLKLGPPAEG EVVQVKWPDG KLYGAKYFGS NIAHMYQVEF EDGSQIAMKR EDIYTLDEEL PKRVKARFST ASDMRFEDTF YGADIIQGER KRQRVLSSRF 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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

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.

Application 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!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months