Datasheet for ABIN3132028

KDM6A Protein (AA 1-1401) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	KDM6A
Protein Characteristics:	AA 1-1401
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM6A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MKSCGVSLAT AAAAAAAAAF GDEEKKMAAG KASGESEEAS PSLTAEEREA LGGLDSRLFG FVRFHEDGAR MKALLGKAVR CYESLILKAE GKVESDFFCQ LGHFNLLLED YPKALSAYQR YYSLQSDYWK NAAFLYGLGL VYFHYNAFQW AIKAFQEVLY VDPSFCRAKE IHLRLGLMFK VNTDYESSLK HFQLALVDCN PCTLSNAEIQ FHIAHLYETQ RKYHSAKEAY EQLLQTENLS AQVKATILQQ LGWMHHTVDL LGDKATKESY AIQYLQKSLE ADPNSGQSWY FLGRCYSSIG KVQDAFISYR QSIDKSEASA DTWCSIGVLY QQQNQPMDAL QAYICAVQLD HGHAAAWMDL GTLYESCNQP QDAIKCYLNA TRSKNCSNTS GLAARIKYLQ AQLCNLPQGS LQNKTKLLPS IEEAWSLPIP AELTSRQGAM NTAQQNTSDN WSGGNAPPPV EQQTHSWCLT PQKLQHLEQL RANRNNLNPA QKLMLEQLES QFVLMQQHQM RQTGVAQVRP TGILNGPTVD SSLPTNSVSG QQPQLPLTRM PSVSQPGVHT ACPRQTLANG PFSAGHVPCS TSRTLGSTDT VLIGNNHVTG SGSNGNVPYL QRNAPTLPHN RTNLTSSTEE PWKNQLSNST QGLHKGPSSH LAGPNGERPL

SSTGPSQHLQ AAGSGIQNQN GHPTLPSNSV TQGAALNHLS SHTATSGGQQ GITLTKESKP SGNTLTVPET SRQTGETPNS TASVEGLPNH VHQVMADAVC SPSHGDSKSP GLLSSDNPQL SALLMGKANN NVGPGTCDKV NNIHPTVHTK TDNSVASSPS SAISTATPSP KSTEQTTTNS VTSLNSPHSG LHTINGEGME ESQSPIKTDL LLVSHRPSPQ IIPSMSVSIY PSSAEVLKAC RNLGKNGLSN SSILLDKCPP PRPPSSPYPP LPKDKLNPPT PSIYLENKRD AFFPPLHQFC TNPNNPVTVI RGLAGALKLD LGLFSTKTLV EANNEHMVEV RTQLLQPADE NWDPTGTKKI WHCESNRSHT TIAKYAQYQA SSFQESLREE NEKRSHHKDH SDSESTSSDN SGKRRKGPFK TIKFGTNIDL SDDKKWKLQL HELTKLPAFV RVVSAGNLLS HVGHTILGMN TVQLYMKVPG SRTPGHQENN NFCSVNINIG PGDCEWFVVP EGYWGVLNDF CEKNNLNFLM GSWWPNLEDL YEANVPVYRF IQRPGDLVWI NAGTVHWVQA IGWCNNIAWN VGPLTACQYK LAVERYEWNK LQNVKSIVPM VHLSWNMARN IKVSDPKLFE MIKYCLLRTL KQCQTLREAL IAAGKEIIWH GRTKEEPAHY CSICEVEVFD LLFVTNESNS RKTYIVHCQD CARKTSGNLE NFVVLEQYKM EDLMQVYDQF TLAPPLPSAS S

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

Product Details

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 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:	KDM6A
Alternative Name:	Kdm6a (KDM6A Products)
Background:	Lysine-specific demethylase 6A (EC 1.14.11.68) (Histone demethylase UTX) (Ubiquitously transcribed TPR protein on the X chromosome) (Ubiquitously transcribed X chromosome tetratricopeptide repeat protein) ([histone H3]-trimethyl-L-lysine(27) demethylase 6A),FUNCTION: Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. Demethylation of 'Lys-27' of histone H3 is concomitant with methylation of 'Lys-4' of histone H3, and regulates the recruitment of the PRC1 complex and monoubiquitination of histone H2A (By similarity). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression (PubMed:21095589). {ECO:0000250|UniProtKB:O15550, ECO:0000269|PubMed:21095589}.
Molecular Weight:	154.4 kDa
UniProt:	O70546
Pathways:	Tube Formation, 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. 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