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



#### Overview

Quantity:	1 mg
Target:	KDM6A
Protein Characteristics:	AA 1-1401
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM6A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### **Product Details**

### Sequence:

MKSCGVSLAT AAAAAAAFGD EEKKMAAGKA SGESEEASPS LTAEEREALG GLDSRLFGFV RFHEDGARTK ALLGKAVRCY ESLILKAEGK VESDFFCQLG HFNLLLEDYP KALSAYQRYY SLQSDYWKNA AFLYGLGLVY FHYNAFQWAI KAFQEVLYVD PSFCRAKEIH LRLGLMFKVN TDYESSLKHF QLALVDCNPC TLSNAEIQFH IAHLYETQRK YHSAKEAYEQ LLQTENLSAQ VKATVLQQLG WMHHTVDLLG DKATKESYAI QYLQKSLEAD PNSGQSWYFL GRCYSSIGKV QDAFISYRQS IDKSEASADT WCSIGVLYQQ QNQPMDALQA YICAVQLDHG HAAAWMDLGT LYESCNQPQD AIKCYLNATR SKSCSNTSAL AARIKYLQAQ LCNLPQGSLQ NKTKLLPSIE EAWSLPIPAE LTSRQGAMNT AQQNTSDNWS GGHAVSHPPV QQQAHSWCLT PQKLQHLEQL RANRNNLNPA QKLMLEQLES QFVLMQQHQM RPTGVAQVRS TGIPNGPTAD SSLPTNSVSG QQPQLALTRV PSVSQPGVRP ACPGQPLANG PFSAGHVPCS TSRTLGSTDT ILIGNNHITG SGSNGNVPYL QRNALTLPHN RTNLTSSAEE PWKNQLSNST QGLHKGQSSH SAGPNGERPL SSTGPSQHLQ AAGSGIQNQN GHPTLPSNSV TQGAALNHLS SHTATSGGQQ GITLTKESKP

SGNILTVPET SRHTGETPNS TASVEGLPNH VHQMTADAVC SPSHGDSKSP GLLSSDNPQL SALLMGKANN NVGTGTCDKV NNIHPAVHTK TDNSVASSPS SAISTATPSP KSTEQTTTNS VTSLNSPHSG LHTINGEGME ESQSPMKTDL LLVNHKPSPQ IIPSMSVSIY PSSAEVLKAC RNLGKNGLSN SSILLDKCPP PRPPSSPYPP LPKDKLNPPT PSIYLENKRD AFFPPLHQFC TNPNNPVTVI RGLAGALKLD LGLFSTKTLV EANNEHMVEV RTQLLQPADE NWDPTGTKKI WHCESNRSHT TIAKYAQYQA SSFQESLREE NEKRSHHKDH SDSESTSSDN SGRRRKGPFK TIKFGTNIDL SDDKKWKLQL HELTKLPAFV RVVSAGNLLS HVGHTILGMN TVQLYMKVPG SRTPGHQENN NFCSVNINIG PGDCEWFVVP EGYWGVLNDF CEKNNLNFLM GSWWPNLEDL YEANVPVYRF IQRPGDLVWI NAGTVHWVQA IGWCNNIAWN VGPLTACQYK LAVERYEWNK LQSVKSIVPM 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 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 posttranslational 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.
- 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®):

- 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.
- 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:

Target:

>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)

## **Target Details**

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Alt	ternative	e Name:

# KDM6A

# 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 (PubMed:17851529, PubMed:17713478, PubMed:17761849). Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-27' (PubMed:17851529, PubMed:17713478, PubMed:17761849). Plays a central role in regulation of posterior development, by regulating HOX gene expression (PubMed:17851529). 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 (PubMed:17761849). Plays a demethylase-independent role in chromatin remodeling to

Target Details		
	regulate T-box family member-dependent gene expression (By similarity).  {ECO:0000250 UniProtKB:070546, ECO:0000269 PubMed:17713478,  ECO:0000269 PubMed:17761849, ECO:0000269 PubMed:17851529,  ECO:0000269 PubMed:18003914}.	
Molecular Weight:	154.2 kDa	
UniProt:	015550	
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. 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.	

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Expiry Date:

Unlimited (if stored properly)