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Datasheet for ABIN3093375

Kdm6b Protein (AA 1-1643) (Strep Tag)

Overview

Quantity:	1 mg
Target:	Kdm6b
Protein Characteristics:	AA 1-1643
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Kdm6b protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MHRAVDPPGA RAAREAFALG GLSCAGAWSS CPPHPPPSA WLPGGRCAS IGQPPLPAPL PPSHGSSSGH PSKPYYAPGA PTPRPLHGKL ESLHGCVQAL LREPAQPGLW EQLGQLYESE HDSEEATRCY HSALRYGGSF AELGPRIGRL QQAQLWNFHT GSCQHRAKVL PPLEQVWNLL HLEHKRNYGA KRGGPPVKRA AEPPVVQPVP PAALSGPSGE EGLSPGGKRR RGCNSEQTGL PPGLPLPPPP LPPPPPPPPP PPPPLPGLAT SPPFQLTKPG LWSTLHGDAW GPERKGSAPP ERQEQRHSLP HPYPYPAPAY TAHPPGHRVL PAAPPGGPR PPGAESHGCL PATRPPGSDL RESRVQRSRM DSSVSPAATT ACVPYAPSRP PGLPGTTTSS SSSSSNTGL RGVEPNPGIP GADHYQTPAL EVSHHGRLGP SAHSSRKPFL GAPAATPHLS LPPGPSSPPP PPCPRLLRPP PPPAWLKGA CRAAREGEI LEELFFGTEG PPRPAPPPLP HREGFLGPPA SRFSVGTQDS HTPPTPPTPT TSSSNSNSGS HSSSPAGPVS FPPPPYLARS IDPLRPPSP AQNPQDPPLV PLTLALPPAP PSSCHQNTSG SFRRPESPRP RVSFPKTEV GPGPPPGPLS KAPQVPVPGV GELPARGPRL FDFPPTPLED QFEPAEFKI LPDGLANIMK MLDESIRKEE EQQQHEAGVA
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PQPPLKEPFA SLQSPFPTDT APTTTAPAVA VTTTTTTTTT TTATQEEEEK PPPALPPPPP
LAKFPPPSQP QPPPPPPSP ASLLKSLASV LEGQKYCYRG TGAAVSTRPG PLPTTQYSPG
PPSGATALPP TSAAPSAQGS PQPSASSSSQ FSTSGGPWAR ERRAGEEPVP GPMTPTQPPP
PLSLPPARSE SEVLEEISRA CETLVERVGR SATDPADPVD TAEPADSGTE RLLPPAQAKE
EAGGVAAVSG SCKRRQKEHQ KEHRRHRRAC KDSVGRRPRE GRAKAKAKVP KEKSRRVLGN
LDLQSEEIQG REKSRPDLGG ASKAKPPTAP APPSAPAPSA QTPPPSASVP GKKAREEAPG
PPGVSRADML KLRSLSEGPP KELKIRLIKV ESGDKETFIA SEVEERRLRM ADLTISHCAA
DVVRASRNAK VKGKFRESYL SPAQSVKPKI NTEEKLPREK LNPPTPSIYL ESKRDAFSPV
LLQFCTDPRN PITVIRGLAG SLRLNLGLFS TKTLVEASGE HTVEVRTQVQ QPSDENWDLT
GTRQIWPCES SRSHTTIAKY AQYQASSFQE SLQEEKESED EESEEPDSTT GTPPSSAPDP
KNHHIIKFGT NIDLSDAKRW KPQLQELLKL PAFMRVTSTG NMLSHVGHTI LGMNTVQLYM
KVPGSRTPGH QENNNFCSVN INIGPGDCEW FAVHEHYWET ISAFCDRHGV DYLTGSWWPI
LDDLYASNIP VYRFVQRPD LVWINAGTVH WVQATGWCNN IAWNVGPLTA YQYQLALERY
EWNEVKNVKS IVPMIHVSWN VARTVKISDP DLFKMIKFCL LQSMKHCQVQ RESLVRAGKK
IAYQGRVKDE PAYYCNECDV EVFNILFVTS ENGSRNTYLV HCEGCARRRS AGLQGQVVLE
QYRTEELAQA YDAFTLAPAS TSR

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

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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.
- 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. 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:	Kdm6b
Alternative Name:	KDM6B (Kdm6b Products)
Background:	Lysine-specific demethylase 6B (EC 1.14.11.68) (JmjC domain-containing protein 3) (Jumonji domain-containing protein 3) (Lysine demethylase 6B) ([histone H3]-trimethyl-L-lysine(27) demethylase 6B),FUNCTION: Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code (PubMed:17825402, PubMed:17851529, PubMed:17713478, PubMed:18003914). Demethylates trimethylated and dimethylated H3 'Lys-27' (PubMed:17825402, PubMed:17851529, PubMed:17713478,

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PubMed:18003914). Plays a central role in regulation of posterior development, by regulating HOX gene expression (PubMed:17851529). Involved in inflammatory response by participating in macrophage differentiation in case of inflammation by regulating gene expression and macrophage differentiation (PubMed:17825402). Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression by acting as a link between T-box factors and the SMARCA4-containing SWI/SNF remodeling complex (By similarity). {ECO:0000250|UniProtKB:Q5NCY0, ECO:0000269|PubMed:17713478, ECO:0000269|PubMed:17825402, ECO:0000269|PubMed:17851529, ECO:0000269|PubMed:18003914, ECO:0000269|PubMed:28262558}.

Molecular Weight: 176.6 kDa

UniProt: [O15054](#)

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)