

Datasheet for ABIN3093320

KDM1B Protein (AA 1-822) (Strep Tag)



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Quantity:	250 μg
Target:	KDM1B
Protein Characteristics:	AA 1-822
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM1B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details		
Brand:	AliCE®	
Sequence:	MATPRGRTKK KASFDHSPDS LPLRSSGRQA KKKATETTDE DEDGGSEKKY RKCEKAGCTA	
	TCPVCFASAS ERCAKNGYTS RWYHLSCGEH FCNECFDHYY RSHKDGYDKY TTWKKIWTSN	
	GKTEPSPKAF MADQQLPYWV QCTKPECRKW RQLTKEIQLT PQIAKTYRCG MKPNTAIKPE	
	TSDHCSLPED LRVLEVSNHW WYSMLILPPL LKDSVAAPLL SAYYPDCVGM SPSCTSTNRA	
	AATGNASPGK LEHSKAALSV HVPGMNRYFQ PFYQPNECGK ALCVRPDVME LDELYEFPEY	
	SRDPTMYLAL RNLILALWYT NCKEALTPQK CIPHIIVRGL VRIRCVQEVE RILYFMTRKG	
	LINTGVLSVG ADQYLLPKDY HNKSVIIIGA GPAGLAAARQ LHNFGIKVTV LEAKDRIGGR	
	VWDDKSFKGV TVGRGAQIVN GCINNPVALM CEQLGISMHK FGERCDLIQE GGRITDPTID	
	KRMDFHFNAL LDVVSEWRKD KTQLQDVPLG EKIEEIYKAF IKESGIQFSE LEGQVLQFHL	
	SNLEYACGSN LHQVSARSWD HNEFFAQFAG DHTLLTPGYS VIIEKLAEGL DIQLKSPVQC	
	IDYSGDEVQV TTTDGTGYSA QKVLVTVPLA LLQKGAIQFN PPLSEKKMKA INSLGAGIIE	

KIALQFPYRF WDSKVQGADF FGHVPPSASK RGLFAVFYDM DPQKKHSVLM SVIAGEAVAS
VRTLDDKQVL QQCMATLREL FKEQEVPDPT KYFVTRWSTD PWIQMAYSFV KTGGSGEAYD
IIAEDIQGTV FFAGEATNRH FPQTVTGAYL SGVREASKIA AF

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 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 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

Product Details

Product Details	
	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	KDM1B
Alternative Name:	KDM1B (KDM1B Products)
Background:	Lysine-specific histone demethylase 2 (EC 1.14.99.66) (Flavin-containing amine oxidase
	domain-containing protein 1) (Lysine-specific histone demethylase 1B),FUNCTION: Histone
	demethylase that demethylates 'Lys-4' of histone H3, a specific tag for epigenetic
	transcriptional activation, thereby acting as a corepressor. Required for de novo DNA
	methylation of a subset of imprinted genes during oogenesis. Acts by oxidizing the substrate by
	FAD to generate the corresponding imine that is subsequently hydrolyzed. Demethylates both
	mono- and di-methylated 'Lys-4' of histone H3. Has no effect on tri-methylated 'Lys-4', mono-,
	di- or tri-methylated 'Lys-9', mono-, di- or tri-methylated 'Lys-27', mono-, di- or tri-methylated 'Lys-
	36' of histone H3, or on mono-, di- or tri-methylated 'Lys-20' of histone H4. Alone, it is unable to
	demethylate H3K4me on nucleosomes and requires the presence of GLYR1 to achieve such
	activity, they form a multifunctional enzyme complex that modifies transcribed chromatin and
	facilitates Pol II transcription through nucleosomes (PubMed:30970244).
	{ECO:0000269 PubMed:23260659, ECO:0000269 PubMed:23357850,
	ECO:0000269 PubMed:30970244}.
Molecular Weight:	92.1 kDa
UniProt:	Q8NB78
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

Application Details

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