Datasheet for ABIN3136790

KDM4B Protein (AA 1-1086) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	KDM4B
Protein Characteristics:	AA 1-1086
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM4B protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MGSEDHSAQN PSCKIMTFRP TMDEFRDFNR YVAYIESQGA HRAGLAKIIP PKEWKPRQTY DDIDDVVIPA PIQQVVTGQS GLFTQYNIQK KAMTVGEYRR LANSEKYCTP RHQDFDDLER KYWKNLTFVS PIYGADISGS LYDDDVAQWN IGNLRTILDM VERECGTIIE GVNTPYLYFG MWKTTFAWHT EDMDLYSINY LHFGEPKSWY AIPPEHGKRL ERLAIGFFPG SSQGCDAFLR HKMTLISPII LKKYGIPFSR ITQEAGEFMI TFPYGYHAGF NHGFNCAEST NFATLRWIDY GKVATQCTCR KDMVKISMDV FVRILQPERY EQWKQGRDLT VLDHTRPTAL SSPELSSWSA SRTSIKAKLL RRQISVKESR PWRKAEEERR REPTRRPGPA SHRRRSQPKK SKPEESRSPG EATAGVSTLD EARGCSRGEA MPEDEEEEEL LPSQGHEAEG VEEDGRGKPR PTKARNKKKT PSPSSPPLLS APPALFPTEE VLRPPPQPKS PGPAMGPMAA EGGPPPTPLN VVPPGAPVEE AEVRPRPIIP MLYVLPRTSS TDGDREHSAH AQLAPMELGP EEENQAQAGD SQGTTPFSKL KVEIKKSRRH PLGRPPTRSP LSVVKQEASS DEEAFLFSGE DDVTDPEALR SLLSLQWKNK

AASFQAERKF NAAAALSEPY CAICTLFYPY SQSVQTERDS AVQPPSKSGQ RTRPLIPEMC FTSSGENTEP LPANSYVGED GTSPLISCAH CCLQVHASCY GVRPELAKEG WTCSRCAAHA WTAECCLCNL RGGALQRTTE HRWIHVICAI AVPEVRFLNV IERNPVDVSA IPEQRWKLKC IYCRKRMKRV SGACIQCSYE HCSTSFHVTC AHAAGVLMEP DDWPYVVSIT CLKHRASGAG GQLLRTVSLG QIVITKNRNG LYYRCRVIGT TAQTFYEVNF DDGSYSDNLY PESITSRDCL RLGPPPEGEL VELRWTDGNL YRARFISMAT SLIYQVEFED GSQLTVKRGD IFTLEEELPK RVRSRLSLST GTPQEPSFSG DDVKAAKRPR VASVLATTTE DTGRSPEYLS FMESLLQAQG RPGAPF

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:

Product Details

	• 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:	KDM4B
Alternative Name:	Kdm4b (KDM4B Products)
Background:	Lysine-specific demethylase 4B (EC 1.14.11.66) (JmjC domain-containing histone demethylation protein 3B) (Jumonji domain-containing protein 2B) ([histone H3]-trimethyl-L-lysine(9) demethylase 4B),FUNCTION: Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys-20'. Only able to demethylate trimethylated H3 'Lys-9', with a weaker activity than KDM4A, KDM4C and KDM4D. Demethylation of Lys residue generates formaldehyde and succinate (By similarity). Plays a critical role in the development of the central nervous system (CNS). {ECO:0000250|UniProtKB:O94953, ECO:0000269|PubMed:27023172}.
Molecular Weight:	121.6 kDa
UniProt:	Q91VY5
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