

Datasheet for ABIN7564789

KDM4B Protein (AA 1-1086) (His tag)



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Overview

Quantity:	1 mg
Target:	KDM4B
Protein Characteristics:	AA 1-1086
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM4B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Kdm4b Protein expressed in mammalian cells.
Sequence:	<p>MGSEDHSAQN PSCKIMTFRP TMDEFDRFNR YVAYIESQGA HRAGLAKIIP PKEWKPRQTY</p> <p>DDIDDVVIPA PIQVVVTGQS GLFTQYNIQK KAMTVGEYRR LANSEKYCTP RHQDFDDLER</p> <p>KYWKNLTFVS PIYGADISGS LYDDDVAQWN IGNLRTILDM VERECGTIIE GVNTPLYLYFG</p> <p>MWKTTFAWHT EDMDLYSINY LHFGEPSKWY AIPPEHGKRL ERLAIGFFPG SSQGCDAFLR</p> <p>HKMTLISPII LKKYGIPFSR ITQEAGEFMI TFPYGYHAGF NHGFNCAEST NFATLRWIDY</p> <p>GKVATQCTCR KDMVKISMDV FVRILQPERY EQWKQGRDLT VLDHTRPTAL SSELSSWSA</p> <p>SRTSIKAKLL RRQISVKESR PWRKAEERRE REPTRRPGPA SHRRRSQPKK SKPEESRSPG</p> <p>EATAGVSTLD EARGCSRGEA MPEDEEEEL LPSQGHEAEG VEEDGRGKPR PTKARNKKKT</p> <p>PSPSSPPLLS APPALFPTTE VLRPPPQPKS PGPAMGPMAA EGGPPPTPLN VPPGAPVEE</p> <p>AEVRPRPIIP MLYVLPRTSS TDGDREHSAH AQLAPMELGP EEENQAQAGD SQGTTPFSKL</p> <p>KVEIKKSRRH PLGRPPTTRSP LSVVKQEASS DEEAFLFSGE DDVTDPEALR SLLSLQWKNK</p>

AASFQAERKF NAAAALSEPY CAICTLFYPY SQSVQTERDS AVQPPSKSGQ RTRPLIPEMC
FTSSGENTEP LPANSYVGED GTSPLISCAH CCLQVHASCY GVRPELAKEG WTCSCAAHA
WTAECCLCNL RGGALQRTTE HRWIHVICAI AVPEVRFLNV IERNPVDVSA IPEQRWKLKC
IYCRKRMKRV SGACIQCSYE HCSTSFHVTC AHAAGVLMPEP DDWPYVVSIT CLKHRASGAG
GQLLRTVSLG QIVITKNRNG LYYRCRVIGT TAQTFYEVNF DDGSYSDNLY PESITSRDCL
RLGPPPEGEL VELRWTDGNL YRARFISMAT SLIQVEFED GSQLTVKRGD IFTLEELPK
RVRSRSLST GTPQEPSFSG DDVKAARKPR VASVLATTTE DTGRSPEYLS FMESLLQAQG
RPGAPF **Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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-

Target Details

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months