Datasheet for ABIN7564593

KDM1B Protein (AA 1-826) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	KDM1B
Protein Characteristics:	AA 1-826
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM1B protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Kdm1b Protein expressed in mammalian cells.
Sequence:	MAASRGRSKK RSNLELSPDN LPLRSSGRQA KKKAVEIPDE DEDGSSEKKY RKCEKAGCTA AYPVCFASAS ERCAKNGYTS RWYHLSCGEH FCNECFDHYY RSHKDGYDKY SAWKRVWTSN GKTEPSPKAF MADQQLPYWV QCTKPECGKW RQLTKEIQLT PHMARTYRCG MKPNTITKPD TPDHCSFPED LRVLEVSNHW WYPMLIQPPL LKDSVAAPLL SAYYPDCVGM SPSCTSTHRA TVTAATTTTG SASPGEMEPS KAAPSSLVLG MNRYFQPFYQ PNECGKALCV RPDVMELDEL YEFPEYSRDP TMYLALRNLI LALWYTNCKE ALTPQKCIPH IIVRGLVRIR CVQEVERILY FMTRKGLINT GVLTVAAGQH LLPKHYHNKS VLVVGAGPAG LAAARQLHNF GMKVTVLEAK DRIGGRVWDD KSFKGVVVGR GPQIVNGCIN NPVALMCEQL GISMRKLGER CDLIQEGGRI TDPTVDKRMD FHFNALLDVV SEWRKDKTLL QDVPLGEKIE EIYRAFVKES GIQFSELEGQ VLQFHLSNLE YACGSSLHQV SARSWDHNEF FAQFAGDHTL LTPGYSTIIE KLAEGLDIRL KSPVQSIDYT GDEVQVTTTD GMGHSAQKVL VTVPLAILQR GAIQFNPPLS EKKMKAINSL GAGIIEKIAL QFPYRFWDSK VQGADFFGHV PPSASQRGLF AVFYDMDSQQ SVLMSVITGE

Product Details

	AVASLRTMDD KQVLQQCMGI LRELFKEQEI PEPTKYFVTR WSTEPWIQMA YSFVKTFGSG EAYDIIAEEI QGTVFFAGEA TNRHFPQTVT GAYLSGVREA SKIAAF **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	KDM1B
Alternative Name:	Kdm1b (KDM1B Products)
Background:	Lysine-specific histone demethylase 1B (EC 1.14.99.66) (Flavin-containing amine oxidase domain-containing protein 1) (Lysine-specific histone demethylase 2),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

Target Details

	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. {ECO:0000269|PubMed:19407342, ECO:0000269|PubMed:19727073}., 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 (PubMed:19407342, PubMed:19727073). 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 (By similarity). {ECO:0000250|UniProtKB:Q8NB78, ECO:0000269|PubMed:19407342, ECO:0000269|PubMed:19727073}.
Molecular Weight:	92.6 kDa
UniProt:	Q8CIG3
Pathways:	Warburg Effect

Application Details

Application Notes:	We expect the protein to work for functional studies. 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

