Datasheet for ABIN7554252

JHDM1D Protein (AA 1-941) (His tag)

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Overview

Quantity:	1 mg
Target:	JHDM1D
Protein Characteristics:	AA 1-941
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This JHDM1D protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant KDM7A Protein expressed in mammalian cells.
Sequence:	MAGAAAAVAA GAAAGAAAAA VSVAAPGRAS APPPPPPVYC VCRQPYDVNR FMIECDICKD WFHGSCVGVE EHHAVDIDLY HCPNCAVLHG SSLMKKRRNW HRHDYTEIDD GSKPVQAGTR TFIKELRSRV FPSADEIIIK MHGSQLTQRY LEKHGFDVPI MVPKLDDLGL RLPSPTFSVM DVERYVGGDK VIDVIDVARQ ADSKMTLHNY VKYFMNPNRP KVLNVISLEF SDTKMSELVE VPDIAKKLSW VENYWPDDSV FPKPFVQKYC LMGVQDSYTD FHIDFGGTSV WYHVLWGEKI FYLIKPTDEN LARYESWSSS VTQSEVFFGD KVDKCYKCVV KQGHTLFVPT GWIHAVLTSQ DCMAFGGNFL HNLNIGMQLR CYEMEKRLKT PDLFKFPFFE AICWFVAKNL LETLKELRED GFQPQTYLVQ GVKALHTALK LWMKKELVSE HAFEIPDNVR PGHLIKELSK VIRAIEEENG KPVKSQGIPI VCPVSRSSNE ATSPYHSRRK MRKLRDHNVR TPSNLDILEL HTREVLKRLE MCPWEEDILS SKLNGKFNKH LQPSSTVPEW RAKDNDLRLL LTNGRIIKDE RQPFADQSLY TADSENEEDK RRTKKAKMKI EESSGVEGVE HEESQKPLNG FFTRVKSELR SRSSGYSDIS ESEDSGPECT ALKSIFTTEE SESSGDEKKQ EITSNFKEES NVMRNFLQKS QKPSRSEIPI

Product Details

	KRECPTSTST EEEAIQGMLS MAGLHYSTCL QRQIQSTDCS GERNSLQDPS SCHGSNHEVR QLYRYDKPVE CGYHVKTEDP DLRTSSWIKQ FDTSRFHPQD LSRSQKCIRK EGSSEISQRV QSRNYVDSSG SSLQNGKYMQ NSNLTSGACQ ISNGSLSPER PVGETSFSVP LHPTKRPASN PPPISNQATK GKRPKKGMAT AKQRLGKILK LNRNGHARFF V **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:	JHDM1D
Alternative Name:	KDM7A (JHDM1D Products)
Background:	Lysine-specific demethylase 7A (JmjC domain-containing histone demethylation protein 1D) (Lysine-specific demethylase 7) ([histone H3]-dimethyl-L-lysine9 demethylase 7A) (EC 1.14.11.65),FUNCTION: Histone demethylase required for brain development. Specifically demethylates dimethylated 'Lys-9', 'Lys-27' and 'Lys-36' (H3K9me2, H3K27me2, H3K36me2,

Target Details

	respectively) of histone H3 and monomethylated histone H4 'Lys-20' residue (H4K20Me1), thereby playing a central role in histone code (PubMed:20023638, PubMed:20622853). Specifically binds trimethylated 'Lys-4' of histone H3 (H3K4me3), affecting histone demethylase specificity: in presence of H3K4me3, it has no demethylase activity toward H3K9me2, while it has high activity toward H3K27me2. Demethylates H3K9me2 in absence of H3K4me3 (PubMed:20023638). Has activity toward H4K20Me1 only when nucleosome is used as a substrate and when not histone octamer is used as substrate (PubMed:20622853). {ECO:0000269|PubMed:20023638, ECO:0000269|PubMed:20622853}.
Molecular Weight:	106.6 kDa
UniProt:	Q6ZMT4

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

