

Datasheet for ABIN7563761  
**JHDM1D Protein (AA 1-940) (His tag)**



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## Overview

Quantity:	1 mg
Target:	JHDM1D
Protein Characteristics:	AA 1-940
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This JHDM1D protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Kdm7a Protein expressed in mammalian cells.
Sequence:	<p>MAGAAAAVAA GAAAGAAAAA GSVSAPGRAS APPPPPPVYC VCRQPYDVNR FMIECDVCKD</p> <p>WFGHSCVGVE EHHAVDIDLY HCPDCAALHG SSLMKKRRNW HRHDYTEVDD GSKPVQAGTR</p> <p>AFVKELRSRV FPSADEIIVK MHGSQLTQRY LEKHGFDVPI MVPKLDDLGL RLPSPAFSVM</p> <p>DVERYVGGDK VIDVIDVARQ ADSKMTLHNY VKYFMNPDRP KVLNVISLEF SDTKMSELVE</p> <p>VPDIARKLSW VENYWPDDSV FPKPFVQKYC LMGVQDSYTD FHIDFGGTSV WYHVLWGEKI</p> <p>FYLIKPTNEN LALYESWSSS VTQSEVFFGD KVDKCYKCVV KQGHTLFVPT GWIHAVLTSQ</p> <p>DCMAFGGNFL HNLNIGMQLR CYEMEKRLKT PDLFKFPFFE AICWFVAKSL LETLKELKED</p> <p>GFQPQSYLVQ GVKALHTALK LWMKKELVSE HAFEIPDNVR PGHLIKELSK VIRAIIEENG</p> <p>KPVKSQGIPS VCPVSRPSNE ASPPYHSRRK MRKLRDHNVR TPSNLDILEL HTREVLKRLE</p> <p>MCPWEEDLLS SKLNGKFNKH LQPSSTVPEW RAKDNDLRL LTNNGRIKDE RQLFADRSLY</p> <p>TADSENEEDK KPTQANMKT EQSSGREEAE SQGSPKPLNR IFTSVRSELN SRPSEYSDGS</p>

DSEDSGPDCT ALKINFATED SESSGDEKKH EITSHFKEES DIVRNLLQKS QKPSRQEIPV  
KRECPTSTST EEEAIQGMLS MAGLHYSSCL QRQIQSTDCS GEKNSLQDPS SCHGSNPEFR  
QLYRCNKPVE FGYHAKTEDQ DLMTSSWNKQ FDRTSRFNAQ DLSRSQKHIK KESSSEINQK  
AQSRHCVDSDN SSSIQNGKYT LNPSLVSCQI SNGSLSPERP IGETSFSMPL HPTKRPASNP  
PPISNQATKG KRPKKGMATA KQRLGKILKL NRNGHARFFV **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:

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, respectively) of histone H3 and monomethylated histone H4 'Lys-20' residue (H4K20Me1),

## Target Details

thereby playing a central role in histone code. 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. Has activity toward H4K20Me1 only when nucleosome is used as a substrate and when not histone octamer is used as substrate. {ECO:0000250|UniProtKB:Q6ZMT4, ECO:0000269|PubMed:20194436}.

Molecular Weight: 106.1 kDa

UniProt: [Q3UWM4](#)

## 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