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# JHDM1D Protein (AA 1-940) (His tag)



**Image** 



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### Overview

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

## **Product Details**

Sequence:

MAGAAAAVAA GAAAGAAAAA GSVSAPGRAS APPPPPPVYC VCRQPYDVNR FMIECDVCKD WFHGSCVGVE EHHAVDIDLY HCPDCAALHG SSLMKKRRNW HRHDYTEVDD GSKPVQAGTR AFVKELRSRV FPSADEIIVK MHGSQLTQRY LEKHGFDVPI MVPKLDDLGL RLPSPAFSVM DVERYVGGDK VIDVIDVARQ ADSKMTLHNY VKYFMNPDRP KVLNVISLEF SDTKMSELVE VPDIARKLSW VENYWPDDSV FPKPFVQKYC LMGVQDSYTD FHIDFGGTSV WYHVLWGEKI FYLIKPTNEN LALYESWSSS VTQSEVFFGD KVDKCYKCVV KQGHTLFVPT GWIHAVLTSQ DCMAFGGNFL HNLNIGMQLR CYEMEKRLKT PDLFKFPFFE AICWFVAKSL LETLKELKED GFQPQSYLVQ GVKALHTALK LWMKKELVSE HAFEIPDNVR PGHLIKELSK VIRAIEEENG KPVKSQGIPS VCPVSRPSNE ASPPYHSRRK MRKLRDHNVR TPSNLDILEL HTREVLKRLE MCPWEEDLLS SKLNGKFNKH LQPSSTVPEW RAKDNDLRLL LTNGRIIKDE RQLFADRSLY TADSENEEDK KPTQNANMKT EQSSGREEAE SQGSPKPLNR IFTSVRSELR SRPSEYSDGS DSEDSGPDCT ALKINFATED SESSGDEKKH EITSHFKEES DIVRNLLQKS QKPSRQEIPV

KRECPTSTST EEEAIQGMLS MAGLHYSSCL QRQIQSTDCS GEKNSLQDPS SCHGSNPEFR QLYRCNKPVE FGYHAKTEDQ DLMTSSWNKQ FDRTSRFNAQ DLSRSQKHIK KESSSEINQK AQSRHCVDSN SSSIQNGKYT LNPSLVSCQI SNGSLSPERP IGETSFSMPL HPTKRPASNP PPISNQATKG KRPKKGMATA KQRLGKILKL NRNGHARFFV

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

### Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Kdm7a Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Product Details	
Sterility:	0.22 μm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	JHDM1D
Alternative Name:	Kdm7a (JHDM1D Products)
Background:	Histone demethylase required for brain development. Specifically demethylates dimethylated 'Lys-9' and 'Lys-27' (H3K9me2 and H3K27me2, respectively) of histone H3 and monomethylated histone H4 'Lys-20' residue (H4K20Me1), 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 (By similarity). {ECO:0000250, ECO:0000269 PubMed:20194436}.
Molecular Weight:	107.0 kDa Including tag.
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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	

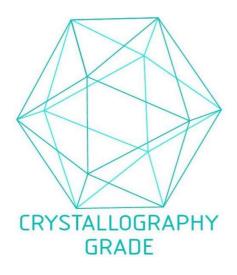
Liquid

Format:

# Handling

Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

# **Images**



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process