

# Recombinant Full Length Human KDM4A Protein, C-Flag-tagged

**Cat. No.** KDM4A-1991HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human KDM4A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | This gene is a member of the Jumonji domain 2 (JMJD2) family and encodes a protein containing a JmjN domain, a JmjC domain, a JD2H domain, two TUDOR domains, and two PHD-type zinc fingers. This nuclear protein functions as a trimethylation-specific demethylase, converting specific trimethylated histone residues to the dimethylated form, and as a transcriptional repressor.                                                         |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 120.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MASESETLNPSARIMTFYPTMEEFRNFSRYIAYIESQGAHRAGLAKVVPPKEWKPRA<br>SYDDIDDLVIPAP IQQLVTGQSGFLTQYNIQKKAMTVREFRKIANS DKYCTPRYSEFE<br>ELERKYWKNLTFNPPIYGADVNGTL YEKHVDEWNIGRLRTILD LVEKESGITIEGVNT<br>PYLYFGMWKTSFAWHTEDMDLYSINYLHFGEPKSWYS VPPEHGKRRLERLAKGFFP<br>GSAQSCEAFLRHKMTLISPLMLKKYGIPFDKVTQEAGEFMITFPYGYHAGFN HGFN<br>CAESTNFATRRWIEYGKQAVLCSCRKDMVKISMDVFVRKFQPERYKLWKAGKDNT<br>VIDHTLPTPEA AEFLKESELPPRAGNEEECEPEEDMEGVEDGEEGDLKTS LAKHRIGT |

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KRHRVCLEIPQEVSQSELPKEDL SSEQYEMTECPAALAPVRPTHSSVRQVEDGLT  
 FPDYSDSTEVKFEELKNVKLEEEDEEEEQEAAALDSV NPASVGGRLVFGSGSKKKS  
 SSSLGSGSSRDSISSDSETSEPLSCRAQGQTGVLTVHSYAKGDGRVTVGEPC TRK  
 KGSAARSFSERELAEVADEYMFSLEENKKS KGRRQPLSKLPRHHPLVLQECVSDDE  
 TSEQLTPEEEA EETEAWAKPLSQLWQNRPPNFEEAEKEFNETMAQQAPHCAVCMIF  
 QTYHQVEFGGFNQNCGNASDLAPQKQ RTKPLIPEMCFTSTGCSTDINLSTPYLEED  
 GTSILVSCCKCSVRVHASCYGVPPAKASEDWMCSRCSANA LEEDCCLCSLRGGAL  
 QRANDDRWVHVSCAIVAEARFVNIAERSPVDVSKIPLPRFKLKCIFCKKRRKRT AG  
 CCVQCSHGRCPTAFHVSCAQAAGVMMQPDDWPFVVFITCFRHKIPNLERAKGALQ  
 SITAGQKVISKHK NGRFYQCEVRLTTETTFYEVNFDDGSFSDNLYPEDIVSQDCLQF  
 GPPAEGEVVQVRWTDGQVYGAKFVAS HPIQMYQVEFEDGSQLVVKRDDVYTLDE  
 ELPKRVKSRLSVASDMRFNEIFTEKEVKQEKKRQRVINSRYR EDYIEPALYRAIME T  
 RTRPLEQKLISEEDLAANDILDYKDDDDKV

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Druggable Genome, Transcription Factors                                                                                                       |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

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## GENE INFORMATION

**Gene Name** KDM4A lysine demethylase 4A [ Homo sapiens (human) ]

**Official Symbol** KDM4A

**Synonyms** JMJD2; JHDM3A; JMJD2A; TDRD14A

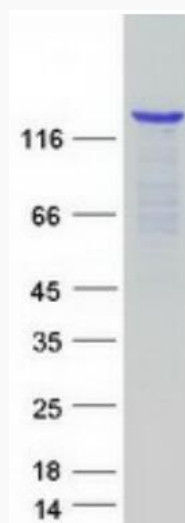
**Gene ID** 9682

**mRNA Refseq** NM\_014663.3

**Protein Refseq** NP\_055478.2

**MIM** 609764

**UniProt ID** O75164



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Coomassie blue staining of purified KDM4A protein.

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