

Recombinant Human KDM4A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. KDM4A-4902H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	KDM4A MS Standard C13 and N15-labeled recombinant protein (NP_055478) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	120.7 kDa
AA Sequence	MASESETLNPSARIMTFYPTMEEFRNFSRYIAYIESQGAHRAGLAKVVPPKEWKPRA SYDDIDDLVIPAPIQQLVTGQSGFLTQYNIQKKAMTVREFRKIANS DKYCTPRYSEFE ELERKYWKNLTFNPPIYGADVNGTLYEKHVDEWNIGRLRTILDLVEKESGITIEGVNT PYLYFGMWKTSFAWHTEDMDLYSINYLHFGEPKSWYSVPPEHGKRRLERLAKGFFP GSAQSCEAFLRHKMTLISPLMLKKYGIPFDKVTQEAGEFMITFPYGYHAGFNHGFNC AESTNFATRRWIEYGKQAVLCSCRKDMVKISMDVFVRKFQPERYKLWKAGKDNTVI DHTLPTPEAAEFLKESELPPRAGNEEEECPEEDMEGVEDGEEGDLKTS LAKHRIGTK RHRVCLEIPQEVSQSELPKEDLSSEQYEMTECPAALAPVRPTHSSVRQVEDGLTF

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PDYSDSTEVKFEELKNVKLEEEDEEEEQEAAALDSVNPASVGGRLVFSGSKKKSS
 SSLGSGSSRDSISSDSETSEPLSCRAQGQTGVLTVHSYAKGDGRVTVGEPCTRKKG
 SAARFSERELAEVADEYMFSLLEENKKSKGRRQPLSKLPRHHPLVLQECVSDDETS
 EQLTPEEEAEETEAWAKPLSQLWQNRPNFEEAEKEFNETMAQQAPHCAVCMIFQT
 YHQVEFGGFNQNCGNASDLAPQKQRTKPLIEMCFTSTGICSTINLSTPYLEEDGT
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 ANDDRWVHVSCAVALERFVNIAERSPVDSKIPLPRFKLKCIFCKKRRKRTAGCCV
 QCSHGRCPTAFHVSCAQAAGVMMQPDDWPFVVFITCFRHKIPNLERAKGALQSITA
 GQKVISKHKNGRFYQCEVVRLTTETFYEVNFDDGSFSDNLYPEDIVSQDCLQFGPP
 AEDEVVQVRWTDGQVYGAKFVASHPIQMYQVEFEDGSQLVVKRDDVYTLDEELPK
 RVKSRLSVASDMRFNEIFTEKEVKQEKKRQRVINSRYREDYIEPALYRAIMETRTRPL
 EQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol KDM4A

Synonyms KDM4A; lysine (K)-specific demethylase 4A; JMJD2, JMJD2A, jumonji domain

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containing 2, jumonji domain containing 2A; lysine-specific demethylase 4A; JHDM3A; jumonji C domain containing histone demethylase 3A; KIAA0677; jumonji domain containing 2; jumonji domain containing 2A; jumonji domain-containing protein 2A; jumonji C domain-containing histone demethylase 3A; jmjC domain-containing histone demethylation protein 3A; JMJD2; JMJD2A;

Gene ID [9682](#)

mRNA Refseq [NM_014663](#)

Protein Refseq [NP_055478](#)

MIM [609764](#)

UniProt ID [O75164](#)

SDS-PAGE

