

Recombinant Mouse Kdm4a Protein, Myc/DDK-tagged

Cat. No. Kdm4a-3681M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length lysine (K)-specific demethylase 4A (Kdm4a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Histone demethylase that specifically demethylates 'Lys-9' and 'Lys-36' residues of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27' nor H4 'Lys-20'. Demethylates trimethylated H3 'Lys-9' and H3 'Lys-36' residue, while it has no activity on mono- and dimethylated residues. Demethylation of Lys residue generates formaldehyde and succinate. Participates in transcriptional repression of ASCL2 and E2F-responsive promoters via the recruitment of histone deacetylases and NCOR1, respectively.
Molecular Mass	120.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Kdm4a lysine (K)-specific demethylase 4A [Mus musculus (house mouse)]

Official Symbol Kdm4a

Synonyms

KDM4A; lysine (K)-specific demethylase 4A; lysine-specific demethylase 4A; jumonji domain containing 2A; jumonji domain-containing protein 2A; jmjC domain-containing histone demethylation protein 3A; Jmjd2; JHDM3A; Jmjd2a; mKIAA0677; D4Ertd222e; MGC28562

Gene ID 230674

mRNA Refseq NM_001161823

Protein Refseq NP_001155295

UniProt ID Q8BW72

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