

## Recombinant Mouse Kdm4a Protein, Myc/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length lysine (K)-specific demethylase 4A (Kdm4a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	120.8 kDa
<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 after receiving vials.
<b>Concentration</b>	>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; D4Ert222e; MGC28562

**Gene ID** [230674](#)

**mRNA Refseq** [NM\\_001161823](#)

**Protein Refseq** [NP\\_001155295](#)

**UniProt ID** [Q8BW72](#)

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