

## Recombinant Mouse Kdm6a Protein, Myc/DDK-tagged

**Cat. No.** Kdm6a-3683M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length lysine (K)-specific demethylase 6A (Kdm6a), 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-27' of histone H3, thereby playing a central role in histone code. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. Demethylation of 'Lys-27' of histone H3 is concomitant with methylation of 'Lys-4' of histone H3, and regulates the recruitment of the PRC1 complex and monoubiquitination of histone H2A. Plays a demethylase-independent role in chromatin remodeling to regulate T-box family member-dependent gene expression. |
| <b>Molecular Mass</b>   | 157.9 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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**Concentration** >50 µg/mL as determined by microplate BCA method

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

## GENE INFORMATION

**Gene Name** [Kdm6a lysine \(K\)-specific demethylase 6A \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Kdm6a](#)

**Synonyms** KDM6A; lysine (K)-specific demethylase 6A; lysine-specific demethylase 6A; histone demethylase UTX; 4lysine (K)-specific demethylase 6A; ubiquitously transcribed TPR protein on the X chromosome; ubiquitously transcribed tetratricopeptide repeat gene, X chromosome; ubiquitously transcribed X chromosome tetratricopeptide repeat protein; Utx

**Gene ID** [22289](#)

**mRNA Refseq** [NM\\_009483](#)

**Protein Refseq** [NP\\_033509](#)

**UniProt ID** [O70546](#)

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