Recombinant Mouse Kdm6a Protein, Myc/DDK-tagged

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

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length lysine (K)-specific demethylase 6A (Kdm6a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	157.9 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.

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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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