

Recombinant Mouse Kdm3a Protein, MYC/DDK-tagged

Cat. No. Kdm3a-255M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse lysine (K)-specific demethylase 3A (Kdm3a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Preferentially demethylates mono- and dimethylated H3 'Lys-9' residue, with a preference for dimethylated residue, while it has weak or no activity on trimethylated H3 'Lys-9'. Demethylation of Lys residue generates formaldehyde and succinate. Involved in hormone-dependent transcriptional activation, by participating in recruitment to androgen-receptor target genes, resulting in H3 'Lys-9' demethylation and transcriptional activation. Involved in spermatogenesis by regulating expression of target genes such as PRM1 and TNP1 which are required for packaging and condensation of sperm chromatin. Involved in obesity resistance through regulation of metabolic genes such as PPARA and UCP1.
Molecular Mass	148.3 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.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 ug/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	Kdm3a lysine (K)-specific demethylase 3A [<i>Mus musculus</i> (house mouse)]
Official Symbol	Kdm3a
Synonyms	Kdm3a; lysine (K)-specific demethylase 3A; TGSA; Tsga; Jmjd1; KDM2A; JHDM2a; Jmjd1a; 1700105C21Rik; C230043E16Rik; lysine-specific demethylase 3A; [histone H3]-dimethyl-L-lysine(9) demethylase 3A; jmjC domain-containing histone demethylation protein 2A; jumonji domain-containing protein 1A; testis specific gene A; EC 1.14.11.65
Gene ID	104263
mRNA Refseq	NM_001038695
Protein Refseq	NP_001033784
UniProt ID	Q6PCM1

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