

Recombinant Mouse Jmjd7 Protein, Myc/DDK-tagged

Cat. No. Jmjd7-3632M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length jumonji domain containing 7 (Jmjd7), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Bifunctional enzyme that acts both as an endopeptidase and 2-oxoglutarate-dependent monooxygenase. Endopeptidase that cleaves histones N-terminal tails at the carboxyl side of methylated arginine or lysine residues, to generate 'tailless nucleosomes', which may trigger transcription elongation. Preferentially recognizes and cleaves monomethylated and dimethylated arginine residues of histones H2, H3 and H4. After initial cleavage, continues to digest histones tails via its aminopeptidase activity. Additionally, may play a role in protein biosynthesis by modifying the translation machinery. Acts as Fe ²⁺ and 2-oxoglutarate-dependent monooxygenase, catalyzing (S)-stereospecific hydroxylation at C-3 of 'Lys-22' of DRG1 and 'Lys-21' of DRG2 translation factors (TRAFAC), promoting their interaction with ribonucleic acids (RNA).
Molecular Mass	35.9 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.

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Storage	Store at -80 centigrade after receiving vials.
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	Jmjd7 jumonji domain containing 7 [Mus musculus (house mouse)]
Official Symbol	Jmjd7
Synonyms	JMJD7; jumonji domain containing 7; jmjC domain-containing protein 7; jumonji domain-containing protein 7; MGC106779
Gene ID	433466
mRNA Refseq	NM_001114637
Protein Refseq	NP_001108109
UniProt ID	P0C872