

Recombinant Mouse Setd7 Protein, Myc/DDK-tagged

Cat. No. Setd7-5801M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length SET domain containing (lysine methyltransferase) 7 (Setd7), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in the transcriptional activation of genes such as collagenase or insulin. Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription. Has also methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins. Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II. Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation.
Molecular Mass	40.5 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	Setd7 SET domain containing (lysine methyltransferase) 7 [Mus musculus (house mouse)]
Official Symbol	Setd7
Synonyms	SETD7; SET domain containing (lysine methyltransferase) 7; histone-lysine N-methyltransferase SETD7; H3-K4-HMTase SETD7; H3-K4 methyltransferase; SET domain-containing protein 7; histone H3-K4 methyltransferase SETD7; KMT7; Set7; H3K4MT; Set7/9; mKIAA1717; 1600028F23Rik
Gene ID	73251
mRNA Refseq	NM_080793
Protein Refseq	NP_542983
UniProt ID	Q8VHL1

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