

Recombinant Human SETD7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SETD7-1794H Lot. No. (See product label)

SPECIFICATION

Product Overview	SETD7 MS Standard C13 and N15-labeled recombinant protein (NP_085151) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
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
AA Sequence	MDSDDDEMVEEAVEGHLDDDGPHGFCTVYSSSTRFEGNFVHGKNGRGKFFFFD GSTLEGYYVDDALQGQGVYTYEDGGVLQGTYVDGELNGPAQEYDTDGRLIFKGQY KDNIRHGVCWIYYPDGGSLVGEVNEDEGEMTGEKIAYVYPDERTALYGKFDGEMIEG KLATLMSTEEGRPHFELMPGNSVYHFDKSTSSCISTNALLPDPYESERVYVAESLISS

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AGEGLFSKVAVGPNTVMSFYNGVRITHQEVDSDRDWALNGNTLSLDEETVIDVPEPY
 NHVSKYCASLGHKANHSFTPNCIYDMFVHPRFGPIKCIRTLRAVEADEELTVAYGYD
 HSPPGKSGPEAPEWYQVELKAFQATQQKTRTRPLEQKLISEEDLAANDILDYKDDD
 DKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [SETD7 SET domain containing 7, histone lysine methyltransferase \[Homo sapiens \(human\) \]](#)

Official Symbol [SETD7](#)

Synonyms SETD7; SET domain containing (lysine methyltransferase) 7; histone-lysine N-methyltransferase SETD7; KIAA1717; KMT7; SET7; SET7/9; Set9; H3-K4-HMTase SETD7; lysine N-methyltransferase 7; SET domain-containing protein 7; histone H3-K4 methyltransferase SETD7; histone H3-lysine 4-specific methyltransferase; SET9; FLJ21193;

Gene ID [80854](#)

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mRNA Refseq [NM_030648](#)

Protein Refseq [NP_085151](#)

MIM [606594](#)

UniProt ID [Q8WTS6](#)

SDS-PAGE



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