

Active Recombinant Human SETD7 Protein, His-tagged

Cat. No. SETD7-129H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active recombinant N-terminal His-tagged full-length human SET7/9 protein (1-366) was purified from E. coli.
Species	Human
Source	E.coli
ProteinLength	1-366
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.
Bio-activity	Activity was determined using 50µM human TAF10 peptide (amino acids 186-195) (Ac) SKSKDRKYTL at 37 centigrade using a Methyltransferase Colorimetric Assay Kit.
Molecular Mass	43.3 kDa

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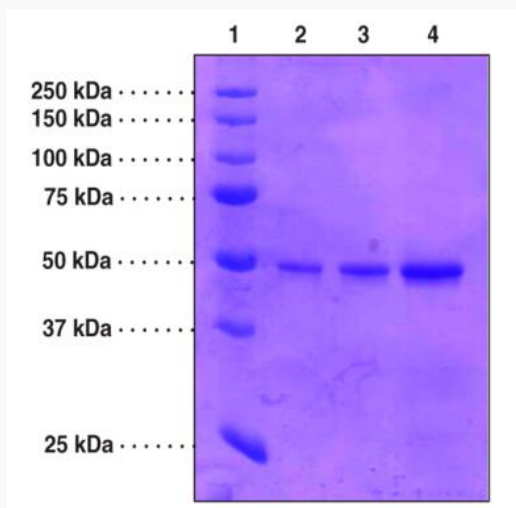
Purity	≥95% as determined by SDS-PAGE
Stability	≥ 6 months
Storage	At -80 centigrade.
Storage Buffer	50 mM HEPES, pH 7.2, 100 mM sodium chloride, and 20% glycerol
GENE INFORMATION	
Gene Name	SETD7 SET domain containing 7, histone lysine methyltransferase [Homo sapiens (human)]
Official Symbol	SETD7
Synonyms	SETD7; SET domain containing 7, histone lysine methyltransferase; KMT7; SET7; SET9; SET7/9; histone-lysine N-methyltransferase SETD7; H3-K4-HMTase SETD7; SET domain containing 7, lysine methyltransferase; SET domain containing lysine methyltransferase 7; SET domain-containing protein 7; histone H3-K4 methyltransferase SETD7; histone H3-lysine 4-specific methyltransferase; lysine N-methyltransferase 7; EC 2.1.1.364
Gene ID	80854
mRNA Refseq	NM_030648
Protein Refseq	NP_085151
MIM	606594
UniProt ID	Q8WTS6

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**SDS-PAGE analysis
of SETD7/9**



Lane 1: MW Ladder
 Lane 2: SETD7/9 (1 µg)
 Lane 3: SETD7/9 (2 µg)
 Lane 4: SETD7/9 (5 µg)