

Recombinant Human SETD7, GST-tagged

Cat. No. SETD7-29235TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment: FFFDGSTLEG YYVDDALQGQ GVYTYEDGGV LQGTYYVDGEL NGPAQEYDTD GRLIFKGQYK DNIRHGVCIW YYPDGGSLVG EVNEDGEMTG EKIAIV, corresponding to amino acids 52-147 of Human KMT7 / SETD7/ SET7/9, with N-terminal proprietary tag, 61 kDa.
Species	Human
Source	E.coli
ProteinLength	52-147 a.a.
Description	Histone-lysine N-methyltransferase SETD7 is an enzyme that in humans is encoded by the SETD7 gene.
Conjugation	GST
Tissue specificity	Widely expressed. Expressed in pancreatic islets.
Biological activity	Specific Activity: 140 pmol/min/mg. Assay conditions: 50 µl reaction mix (50 mM TRIS pH8.8, 5 mM MgCl ₂ , 4 mM DTT, 20 µM S-adenosylhomocysteine, and 0-10 ng SET7/9) add to the wells coated with the substrate. Incubate for 1 hr. Add antibody against methylated K4
Form	Liquid

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Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	FFFDGSTLEGYYVDDALQGQGVYTYEDGGVLQGTYVDGELNGPAQEYDTDGRLIFK GQYKDNIRHGVVCWIYYPDGGSLVGEVNEDGEMTGEKIAYV
Sequence Similarities	Belongs to the histone-lysine methyltransferase family. SET7 subfamily. Contains 3 MORN repeats. Contains 1 SET domain.

GENE INFORMATION

Gene Name	SETD7 SET domain containing (lysine methyltransferase) 7 [Homo sapiens]
Official Symbol	SETD7
Synonyms	SETD7; SET domain containing (lysine methyltransferase) 7; histone-lysine N-methyltransferase SETD7; KIAA1717; KMT7; SET7; SET7/9; Set9;
Gene ID	80854
mRNA Refseq	NM_030648
Protein Refseq	NP_085151
MIM	606594
Uniprot ID	Q8WTS6
Chromosome Location	4q31.1

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Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem; p53 pathway, organism-specific biosystem;
Function	histone-lysine N-methyltransferase activity; histone-lysine N-methyltransferase activity; methyltransferase activity; p53 binding; protein binding;

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