Recombinant Human SET Domain Containing (lysine methyltransferase) 7, GST-tagged

Cat. No. SETD7-1630H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SETD7 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	SETD7 is a lysine methyltransferase which can methylates lysine-4 in histone H3 in vitro and in vivo. Methylation of K4 in histone H3 by SETD7 and methylation of K9 in histone H3 by SUV39H1 were found to have differential effects on subsequent histone acetylation by p300. SETD7 can also methylate p53 at lys372 within the C-terminal regulatory region. Methylated p53 is restricted to the nucleus and the modification positively affects its stability.
Applications	Western Blot
Molecular Weight	74 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1mM PMSF, 25 % glycerol.
Purity	> 95 %

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Concentration	0.1 ug/ul
Sequences	Full length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Lysine degradation; p53 pathway

GENE INFORMATION

Gene Name	SETD7 SET domain containing (lysine methyltransferase) 7 [Homo sapiens]
Official Symbol	SETD7
Synonyms	SETD7; SET domain containing (lysine methyltransferase) 7; KMT7; SET7; SET9; SET7/9; FLJ21193; KIAA1717; histone-lysine N-methyltransferase SETD7; H3-K4-HMTase SETD7; OTTHUMP00000164543; OTTHUMP00000220049; lysine N-methyltransferase 7; SET domain-containing protein 7; histone H3-K4 methyltransferase SETD7; histone H3-lysine 4-specific methyltransferase; EC 2.1.1.43; Histone-lysine N-methyltransferase SETD7; Histone H3-K4 methyltransferase SETD7; Lysine N-methyltransferase 7; SET domain-containing protein 7
Gene ID	80854
mRNA Refseq	NM_030648
Protein Refseq	NP_085151

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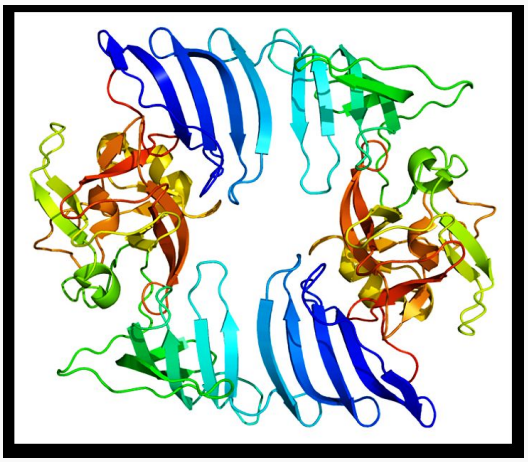
MIM	606594
UniProt ID	Q8WTS6
Chromosome Location	4q31.1
Function	histone-lysine N-methyltransferase activity; methyltransferase activity; p53 binding; protein binding; protein-lysine N-methyltransferase activity; transferase activity
PDBrendering based on 1h3i.	

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