Recombinant Human SET Domain Containing (lysine methyltransferase) 8, GST-tagged

Cat. No. SETD8-1631H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SETD8 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	SETD8 is a lysine methyltransferase that monomethylates p53 in human cell lines. The monomethylation by SETD8 suppresses p53-mediated transcriptional activation of highly responsive target genes, such as p21 and PUMA but it has little influence on weak p53 targets. Depletion of SET8 augmented the proapoptotic and checkpoint activation functions of p53, and SETD8 expression is downregulated during DNA damage.
Applications	Western Blot
Molecular Weight	68 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	> 85 %

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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	SETD8 SET domain containing (lysine methyltransferase) 8 [Homo sapiens]
Official Symbol	SETD8
Synonyms	SETD8; SET domain containing (lysine methyltransferase) 8; SET8; KMT5A; SET07; PR-Set7; N-lysine methyltransferase SETD8; PR/SET07; OTTHUMP00000197452; OTTHUMP00000197454; H4-K20-HMTase SETD8; lysine N-methyltransferase 5A; SET domain-containing protein 8; PR/SET domain containing protein 8; PR/SET domain-containing protein 07; histone-lysine N-methyltransferase SETD8; H4-K20-specific histone methyltransferase; H4K20-specific histone methyltransferase splice variant Set8b; EC 2.1.1.43; N-lysine methyltransferase SETD8; Lysine N-methyltransferase 5A
Gene ID	387893
mRNA Refseq	NM_020382
Protein Refseq	NP_065115

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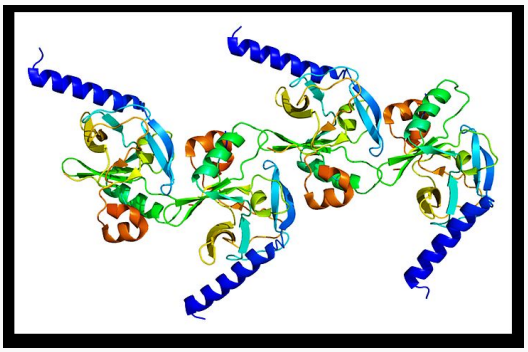
MIM	607240
UniProt ID	Q9NQR1
Chromosome Location	12q24.31
Function	histone-lysine N-methyltransferase activity; methyltransferase activity; p53 binding; protein binding; protein-lysine N-methyltransferase activity; transferase activity
PDBrendering based on 1zkk.	

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