

Recombinant Human SETMAR protein, His-tagged

Cat. No. SETMAR-93H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SETMAR, fused with N-His tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	358aa(including fusion tag)
Description	Histone methyltransferase that methylates "Lys-4" and "Lys-36" of histone H3, 2 specific tags for epigenetic transcriptional activation. Specifically mediates dimethylation of H3 "Lys-36". Has sequence-specific DNA-binding activity and recognizes the 19-mer core of the 5"-terminal inverted repeats (TIRs) of the Hsmar1 element. Has DNA nicking activity. Has in vivo end joining activity and may mediate genomic integration of foreign DNA.
Form	20mM Tris.Cl, 50mM NaCl, 50% Glycerol, pH9.0.
Molecular Mass	42.1kDa(including fusion tag)
Applications	WB, ELISA, IP, antibody production, protein array
Storage	Store at -80centigrade and avoid repeated freeze-thaw cycles

GENE INFORMATION

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Gene Name	SETMAR SET domain and mariner transposase fusion gene [Homo sapiens]
Official Symbol	SETMAR
Synonyms	SETMAR; SET domain and mariner transposase fusion gene; histone-lysine N-methyltransferase SETMAR; metnase; hsMar1; SET domain and mariner transposase fusion gene-containing protein; METNASE;
Gene ID	6419
mRNA Refseq	NM_001243723
Protein Refseq	NP_001230652
MIM	609834
UniProt ID	Q53H47
Chromosome Location	3p26.2
Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem;
Function	endonuclease activity; histone-lysine N-methyltransferase activity; hydrolase activity; metal ion binding; methyltransferase activity; protein binding; protein homodimerization activity; structure-specific DNA binding; structure-specific DNA binding; transferase activity; transposase activity; zinc ion binding;