

Recombinant Human SETMAR, GST-tagged

Cat. No. SETMAR-6966H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SETMAR was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	SETMAR or SET domain and mariner transposase fusion gene is a nonhomologous end-joining repair protein that regulates genomic integration of exogenous DNA by opening chromatin and facilitating joining of DNA ends. SETMAR has histone methyltransferase activity and methylates Lys-4 and Lys-36 of histone H3. SETMAR also has DNA nicking activity and may play a role in DNA repair. Human Pso4 forms a stable complex with SETMAR that regulates Metnase function in DNA repair. SETMAR has sequence-specific DNA-binding activity and recognizes the 19-mer core of the 5-terminal inverted repeats (TIRs) of the Hsmar1 element.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~66-69 kDa
Purity	>85%

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Applications	Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.2 µg/µl
GENE INFORMATION	
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

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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;

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