

## Recombinant Human TRDMT1 , GST-tagged

**Cat. No.** TRDMT1-6969H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human TRDMT1 (DNMT2) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full length
<b>Description</b>	TRDMT1 is responsible for the methylation of aspartic acid transfer RNA, specifically at the cytosine-38 residue in the anticodon loop. TRDMT1 also possesses residual DNA-(cytosine-C5) methyltransferase activity. While similar in sequence and structure to DNA cytosine methyltransferases, TRDMT1 is distinct and highly conserved in its function among various species. The indirect sequence recognition is also a feature of eukaryotic DNA methyltransferases, which may have arisen from a DNMT2-like RNA methyltransferase. DNMT2 is involved in retrotransposon silencing and telomere integrity in somatic cells.
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Molecular Mass</b>	~67 kDa
<b>Purity</b>	>95%

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<b>Applications</b>	Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 $\mu\text{g}/\mu$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	TRDMT1 tRNA aspartic acid methyltransferase 1 [ Homo sapiens ]
<b>Official Symbol</b>	TRDMT1
<b>Synonyms</b>	TRDMT1; tRNA aspartic acid methyltransferase 1; DNA (cytosine 5 ) methyltransferase 2 , DNMT2; tRNA (cytosine(38)-C(5))-methyltransferase; RNMT1; DNA methyltransferase-2; DNA MTase homolog HsaIIP; tRNA (cytosine-5)-methyltransferase; DNA (cytosine-5)-methyltransferase-like protein 2; DMNT2; DNMT2; PUMET; MHSIIP;
<b>Gene ID</b>	1787
<b>mRNA Refseq</b>	NM_004412
<b>Protein Refseq</b>	NP_004403
<b>MIM</b>	602478
<b>UniProt ID</b>	O14717
<b>Chromosome Location</b>	10p15.1

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**Function**

DNA (cytosine-5-)-methyltransferase activity; DNA binding; RNA binding; methyltransferase activity; transferase activity;

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