Recombinant Human TRDMT1, GST-tagged

Cat. No. TRDMT1-512H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DNMT2, (a-a 2-292), with N-terminal GST tag expressed in*baculovirus*. MW=71 kDa.
Species	Human
Source	Insect Cells
ProteinLength	2-292 a.a.
Description	CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a protein with similarity to DNA methyltransferases, but this protein does not display methyltransferase activity. The protein strongly binds DNA, suggesting that it may mark specific sequences in the genome. Alternative splicing results in multiple transcript variants encoding different isoforms.
Purity	>80%.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20 and 10% glycerol.
Stability	>6 months at –80°C.

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GENE INFORMATION

Gene Name	TRDMT1 tRNA aspartic acid methyltransferase 1 [Homo sapiens]
Synonyms	TRDMT1; tRNA aspartic acid methyltransferase 1; DMNT2; DNMT2; PuMet; RNMT1; M.HsaIIP; DNA methyltransferase-2; DNA MTase homolog HsaIIP; DNA methyltransferase homolog HsaIIP; DNA (cytosine-5-)-methyltransferase 2; EC 2.1.1.29
Gene ID	1787
mRNA Refseq	NM_004412
Protein Refseq	NP_004403
MIM	602478
UniProt ID	O14717
Chromosome Location	10p15.5
Pathway	Cysteine and methionine metabolism; Metabolic pathways
Function	DNA (cytosine-5-)-methyltransferase activity; RNA binding; methyltransferase activity; tRNA (cytosine-5-)-methyltransferase activity transferase activity; DNA binding

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