

## Recombinant Human TRDMT1, His-tagged

Cat. No. TRDMT1-787H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TRDMT1 protein (Met 1-Glu 391), fused with the His tag at the N-terminus, was expressed in <i>Insect cells</i> .
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	1-391 a.a.
<b>Description</b>	TRDMT1, also known as tRNA (cytosine-5-)-methyltransferase, DNA methyltransferase homolog HsallP, and DNMT2, is a member of the DNA methyltransferase family of enzymes. While the role of other DNMT proteins has been extensively characterized, comparably little is known about DNMT2. It is the most widely conserved DNMT protein, with homologues in protists, plants, fungi, and animals.
<b>Molecular Mass</b>	The recombinant human TRDMT1/GST chimera consists of 616 amino acids and predicts a molecular mass of 71 kDa. It migrates as an approximately 60 kDa band in SDS-PAGE under reducing conditions.
<b>Predicted N Terminal</b>	Met.
<b>Purity</b>	> 94 % as determined by SDS-PAGE.
<b>Formulation</b>	Lyophilized from sterile 50mM Tris , 100 mM NaCl , 0.5mM GSH, 0.5mM PMSF, pH 8.0.

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<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Reconstitution</b>	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
<b>Storage And Stability</b>	Samples are stable for up to twelve months from date of receipt at -70 <sup>0</sup> C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	TRDMT1 tRNA aspartic acid methyltransferase 1 [ Homo sapiens ]
<b>Synonyms</b>	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
<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>	10p15.5

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<b>Pathway</b>	Cysteine and methionine metabolism; Metabolic pathways
<b>Function</b>	DNA (cytosine-5-)-methyltransferase activity; RNA binding; methyltransferase activity; tRNA (cytosine-5-)-methyltransferase activity transferase activity; DNA binding

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