

# Recombinant Human TRDMT1

**Cat. No.** TRDMT1-28370TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Dnmt2 with N terminal proprietary tag, 69.08kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	391 amino acids
<b>Description</b>	This gene encodes a protein responsible for the methylation of aspartic acid transfer RNA, specifically at the cytosine-38 residue in the anticodon loop. This enzyme also possesses residual DNA-(cytosine-C5) methyltransferase activity. While similar in sequence and structure to DNA cytosine methyltransferases, this gene is distinct and highly conserved in its function among taxa.
<b>Molecular Weight</b>	69.080kDa inclusive of tags
<b>Tissue specificity</b>	Ubiquitous. Higher expression in testis, ovary and thymus and at much lower levels in spleen, prostate, colon, small intestine, and peripheral blood leukocytes.
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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 45-1 Ramsey Road, Shirley, NY 11967, USA



<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	MEPLRVLELYSGVGGMHHALRESCIPAQVVAIDVNTVAN EVYKYNFPHTQLLAKTI EGITLLEFDRLSFDMLMSPPCQ PFTRIGRQGDMTDSRTNSFLYILDILPRLQKLPKYI LLEN VKGFEVSSTRDLLIQTIENTCGFQYQEFLLSPTSLSGIPNSR LRYFLIAKLQSEPLP FQAPGQVLMFEPKIESVHPQKYAMD VENKIQEKNVEPNISFDGSIQCSGKDAILFKL ETAEEIHR KNQQSDLSVKMLKDFLEDDTDVNQYLLPPKSLRLRYALLL DIVQPTCRR SVCFTKGYGSYIEGTGSVLQTAEDVQVENIY KSLTNLSQEEQITKLLILKLRYPKEI ANLLGFPPEFGF PEKITVKQRYRLLGNSLNVHVVAKLKILYE
<b>Sequence Similarities</b>	Belongs to the C5-methyltransferase family.
<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;
<b>Gene ID</b>	1787
<b>mRNA Refseq</b>	NM_004412
<b>Protein Refseq</b>	NP_004403
<b>MIM</b>	602478

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**Uniprot ID** O14717

**Chromosome Location** 10p15.1

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

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