

Recombinant Human TRDMT1

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

SPECIFICATION

Product Overview	Recombinant full length Human Dnmt2 with N terminal proprietary tag, 69.08kDa.
Species	Human
Source	Wheat Germ
ProteinLength	391 amino acids
Description	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.
Molecular Weight	69.080kDa inclusive of tags
Tissue specificity	Ubiquitous. Higher expression in testis, ovary and thymus and at much lower levels in spleen, prostate, colon, small intestine, and peripheral blood leukocytes.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MEPLRVLELYSGVGGMHHALRESCIPAQVVAIDVNTVAN EVYKYNFPHTQLLAKTI EGITLEEFDRLSFDMLMSPPCQ PFTRIGRQGDMTDSRTNSFLYILDILPRLQKLPKYI LLEN VKGFEVSSTRDLLIQTIENCGFQYQEFLLSPTSLGIPNSR LRYFLIAKLQSEPLP FQAPGQVLMEFPKIESVHPQKYAMD VENKIQEKNVEPNISFDGSIQCSGKDAILFKL ETAEEIHR KNQQDSDSL SVKMLKDFLEDDTDVNQYLLPPKSLLRYALLL DIVQPTCRR SVCFTKGYGSYIEGTGSVLQTAEDVQVENIY KSLTNLSQEEQITKLLILKLRYPKEI ANLLGFPPEFGF PEKITVKQRYRLLGNSLNVHVVAKLIKILYE
Sequence Similarities	Belongs to the C5-methyltransferase family.
GENE INFORMATION	
Gene Name	TRDMT1 tRNA aspartic acid methyltransferase 1 [Homo sapiens]
Official Symbol	TRDMT1
Synonyms	TRDMT1; tRNA aspartic acid methyltransferase 1; DNA (cytosine 5) methyltransferase 2 , DNMT2; tRNA (cytosine(38)-C(5))-methyltransferase; RNMT1;
Gene ID	1787
mRNA Refseq	NM_004412
Protein Refseq	NP_004403
MIM	602478

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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