

Recombinant Human TRDMT1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human TRDMT1 protein (Met 1-Glu 391), fused with the His tag at the N-terminus, was expressed in <i>Insect cells</i> .
Species	Human
Source	Insect Cells
ProteinLength	1-391 a.a.
Description	TRDMT1, also known as tRNA (cytosine-5-)-methyltransferase, DNA methyltransferase homolog HsaIIP, 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.
Molecular Mass	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.
Predicted N Terminal	Met.
Purity	> 94 % as determined by SDS-PAGE.
Formulation	Lyophilized from sterile 50Mm Tris ,100 mM NaCl , 0.5mM GSH, 0.5mM PMSF, pH 8.0.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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

GENE INFORMATION

Gene Name	TRDMT1 tRNA aspartic acid methyltransferase 1 [Homo sapiens]
Synonyms	TRDMT1; tRNA aspartic acid methyltransferase 1; DMNT2; DNMT2; PuMet; RNMT1; M.HsaIP; DNA methyltransferase-2; DNA MTase homolog HsaIP; DNA methyltransferase homolog HsaIP; 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

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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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