

DNMT2 Recombinant Protein | TRDMT1 recombinant protein

DNMT2 Protein, Human, Recombinant (GST Tag)

CATALOG # AAA257971	HOST Baculovirus-Insect Cells
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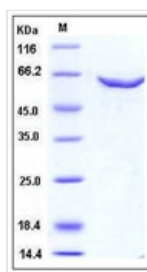
PRODUCT SYNONYMS

DNMT2; DNMT2 Protein; Human; Recombinant (GST Tag); Human DNMT2/TRDMT1 Protein (GST Tag); DMNT2 Protein; MHSIIP Protein; PUMET Protein; RNMT1 Protein; tRNA aspartic acid methyltransferase 1; TRDMT1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>94% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 50mM Tris, 100mM NaCl, 0.5mM GSH, 0.5mM PMSF, pH8.0 5% mannitol, 0.01% Tween-80
Sequence	Met1-Glu39 1
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Met
Tag	N-GST
Protein Construction	A DNA sequence encoding the human TRDMT1 isoform a (NP_004403.1)(Met 1-Glu 391) was fused with the GST tag at the N-terminus.
Reconstitution	It is recommended that sterile water (800ul) be added to the vial to prepare a stock solution of 0.125mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Store it under sterile conditions at -20°C to -80°C upon receiving. The lab recommends to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for TRDMT1 recombinant protein	Background: DNMT2, also known as tRNA (cytosine-5-)-methyltransferase, DNA methyltransferase homolog HsaIIP, and TRDMT1, is a member of the DNA methyltransferase family of enzymes. DNMT2 enzymes have been widely conserved during evolution and contain all of the signature motifs of DNA (cytosine-5)-methyltransferases. It contains all 10 sequence motifs that are conserved among m(5)C MTases, including the consensus S'-adenosyl-L-methionine-binding motifs and the active site ProCys dipeptide, and its structure is very similar to prokaryotic DNA methyltransferases. DNMT2 has close homologs in plants, insects and Schizosaccharomyces pombe, but no related sequence can be found in the genomes of Saccharomyces cerevisiae or Caenorhabditis elegans. While the biological function of DNMT2 is not yet known, the strong binding to DNA suggests that DNMT2 may mark specific sequences in the genome by binding to DNA through the specific target-recognizing motif. However, the DNA methyltransferase activity of these proteins is comparatively weak and their biochemical and functional properties remain enigmatic. Recent evidence now shows that Dnmt2 has a novel tRNA methyltransferase activity, raising the possibility that the biological roles of these proteins might be broader than previously thought.
Product Categories/Family for TRDMT1 recombinant protein	DNA methyltransferases (DNMTs)
References	Dong A, et al. (2001) Structure of human DNMT2, an enigmatic DNA methyltransferase homolog that displays denaturant-resistant binding to DNA. Nucleic Acids Res. 29(2): 439-48. Hermann A, et al. (2003) The human Dnmt2 has residual DNA-(cytosine-C5) methyltransferase activity. J Biol Chem. 278(34): 31717-21. Jeltsch A, et al. (2006) Two substrates are better than one: dual specificities for Dnmt2 methyltransferases. Trends Biochem Sci. 31(6): 306-8. Schaefer M, et al. (2010) Solving the Dnmt2 enigma. Chromosoma. 119(1): 35-40.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758184
NCBI GeneID	1787
NCBI Accession #	NP_004403.1
NCBI GenBank Nucleotide #	NM_004412.5
UniProt Accession #	O14717 ; O43669 ; Q86WW6 ; B0YJ02 ; B0YJ03 ; B0YJ07 ; B0YJ08
Molecular Weight	12,087 Da
NCBI Official Full Name	tRNA (cytosine(38)-C(5))-methyltransferase
NCBI Official Synonym Full Names	tRNA aspartic acid methyltransferase 1
NCBI Official Symbol	TRDMT1
NCBI Official Synonym Symbols	DMNT2; DNMT2; PUMET; RNMT1; MHSAILP
NCBI Protein Information	tRNA (cytosine(38)-C(5))-methyltransferase; tRNA (cytosine(38)-C(5))-methyltransferase; DNA (cytosine-5)-methyltransferase-like protein 2; DNA MTase homolog HsaIIP; DNA methyltransferase-2; tRNA (cytosine-5)-methyltransferase
UniProt Protein Name	tRNA (cytosine(38)-C(5))-methyltransferase
UniProt Gene Name	TRDMT1
UniProt Synonym Gene Names	DNMT2; Dnmt2; DNA MTase homolog HsaIIP; M.HsaIIP
UniProt Entry Name	TRDMT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/trdmt1-recombinant-protein-baculovirus-insect-cells/257971>