

Recombinant Human DNMT2, His-tagged

Cat. No. DNMT2-12109H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human DNMT2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-391a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name TRDMT1 tRNA aspartic acid methyltransferase 1 [Homo sapiens]

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Official Symbol	TRDMT1
Synonyms	TRDMT1; tRNA aspartic acid methyltransferase 1; DNA (cytosine 5) methyltransferase 2 , DNMT2; tRNA (cytosine(38)-C(5))-methyltransferase; RNMT1; DNA methyltransferase-2; DNA MTase homolog HsaIIP; tRNA (cytosine-5)-methyltransferase; DNA (cytosine-5)-methyltransferase-like protein 2; DMNT2; DNMT2; PUMET; MHSIIP;
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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