
Product Data Sheet

Product Name: TRDMT1 Human

Cat. No.: GP22327

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	tRNA (cytosine(38)-C(5))-methyltransferase; DNA (cytosine-5)-methyltransferase-like protein 2; Dnmt2; DNA methyltransferase homolog HsaIIP; DNA MTase homolog HsaIIP; M.HsaIIP; PuMet; TRDMT1; DNMT2; DMNT2; RNMT1; MHSaIIP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMEPLRV LELYSGVGGM HHALRESCIP AQVVAIDVN TVANEVYKYN FPHTQLLAKT IEGITLLEFD RLSFDMILMS PPCQPFTRIG RQGDMTDSRT NSFLYILDIL PRLQKLPKYI LLENVKGFEV SSTRDLLIQT IENCGFQYQE FLLSPTSLGI PNSRLRYFLI AKLQSEPLPF QAPGQVLMEF PKIESVHPQK YAMDVENKIQ EKNVEPNISF DGSIQCSGKD AILFKLETAE EIHRKNQQDS DLSVKMLKDF LEDDTDVNQY LLPPKSLRLY ALLLDIVQPT CRRSVCFTKG YGSYIEGTGS VLQTAEDVQV ENIYKSLTNL SQEEQITKLL ILKLRVFTPK EIANLLGFPP EFGFPEKITV KQRYRLLGNS LNVHVVAKLI KILYE.		
Formulation	The TRDMT1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.		

Introduction

tRNA aspartic acid methyltransferase 1 (TRDMT1) is a member of the C5-methyltransferase family. TRDMT1 specifically methylates cytosine 38 in the anticodon loop of tRNA(Asp). TRDMT1 is a protein responsible for the methylation of aspartic acid transfer RNA, particularly at the cytosine-38 residue in the anticodon loop. In addition, the TRDMT1 enzyme has residual DNA-(cytosine-C5) methyltransferase activity. TRDMT1 is expressed ubiquitously; however it has a higher expression in the testis, ovary and thymus and at much lower levels in the spleen, prostate, colon, small intestine, and peripheral blood leukocytes. Though similar in sequence and structure to DNA cytosine

Caution: Product has not been fully validated for medical applications. For research use only.

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methyltransferases, the TRDMT1 gene is distinctive and extremely conserved in its function between taxa.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TRDMT1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 415 amino acids (1-391) and having a molecular mass of 47.2kDa. TRDMT1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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