

# Recombinant human TRDMT1 protein

Catalog Number: ATGP1495

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-391aa

### UniProt No.

O14717

### NCBI Accession No.

AAH47733

### Alternative Names

tRNA (cytosine(38)-C(5))-methyltransferase, M.HsaIIP, PuMet, RNMT1, DNMT2

## PRODUCT SPECIFICATION

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### Molecular Weight

47.1 kDa (415aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

TRDMT1 (tRNA aspartic acid methyltransferase 1), also known as DNMT2, specifically methylates cytosine 38 in the anticodon loop of tRNA (Asp). Recombinant human TRDMT1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

### Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH MGSH>MEPLRV LELYSVGGM HHALRESCIP AQVVAIDVN TVANEVYKYN  
FPHTQLLAKT IEGITLEEFD RLSFDMILMS PPCQPFTRIG RQGDMTDSRT NSFLYILDIL PRLQKLPKYI LLENVKGFEV

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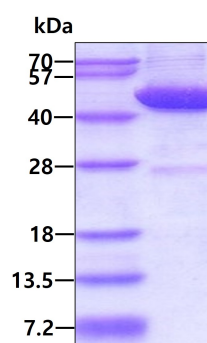
SSTRDLLIQT IENCGFQYQE FLLSPTSLGI PNSRLRYFLI AKLQSEPLPF QAPGQVLMEF PKIESVHPQK YAMDVENKIQ  
EKNVEPNISF DGSIQCSGKD AILFKLETAE EIHRKNQQDS DLSVKMLKDF LEDDTDVNQY LLPPKSLRY ALLLDIVQPT  
CRRSVCFTKG YGSYIEGTGS VLQTAEDVQV ENIYKSLTNL SQEEQITKLL ILKLYFTPK EIANLLGFPP EFGFPEKITV  
KQRYRLLGNS LNVHVVAKLI KILYE

## General References

Okano M., et al. (1998) Nucleic Acids Res. 26:2536-2540  
Franchina M., et al. (2001) Int. J. Biochem. Cell Biol. 33:1104-1115

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.