

# Recombinant human TRDMT1 protein

Catalog Number: IBATGP1495



## PRODUCT INFORMATION

---

### 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

---

### 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

---

### 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 LELYSGVGGM HHALRESCIP AQVVAIDVN TVANEVYKYN  
FPHTQLLAKT IEGITLEEFD RLSFDMILMS PPCQPFTRIG RQGDMTDSRT NSFLYILDIL PRLQKLPKYI LLENVKGFEV

---

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**

*Manufactured for:*

Immuno-Biological Laboratories, Inc. (IBL-America)  
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA  
Phone: (888) 523-1246 Fax.: (763) 780-2988  
Email: [info@ibl-america.com](mailto:info@ibl-america.com) Web: [www.ibl-america.com](http://www.ibl-america.com)

# Recombinant human TRDMT1 protein

Catalog Number: IBATGP1495



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

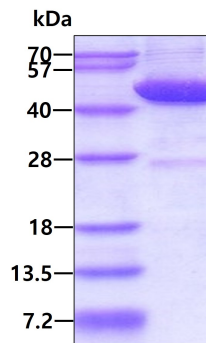
## General References

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



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

---

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Manufactured for:  
Immuno-Biological Laboratories, Inc. (IBL-America)  
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA  
Phone: (888) 523-1246 Fax.: (763) 780-2988  
Email: [info@ibl-america.com](mailto:info@ibl-america.com) Web: [www.ibl-america.com](http://www.ibl-america.com)