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## Recombinant human RNMT protein

Catalog Number: ATGP1068

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-476aa

#### **UniProt No.**

043148

#### **NCBI Accession No.**

NP 003790.1

### **Alternative Names**

mRNA cap guanine-N7 methyltransferase, MET, RG7MT1, DKFZp686H1252, EC 2.1.1.56, hcm1p, hCMT1, HCMT1a, hCMT1c, hMet, hypothetical protein KIAA0396, KIAA0398, MET, mRNA (guanine 7)methyltransferase, mRNA (guanine N(7)) methyltransferase, mRNA cap methyltransferase, OTTHuMP00000162509, RNA guanine 7 methyltransferase, RNA guanine-7-methyltransferase, RNMT

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

57 kDa (496aa)

## Concentration

0.5mg/ml (determined by Bradford assay)

### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 100mM NaCl

## **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**

RNMT (mRNA cap guanine-N7 methyltransferase), also known as MET, RG7MT1 or hCMT1c, is a widely expressed nuclear protein that belongs to the mRNA cap methyltransferase family. Cap-dependent mRNA translation requires the methylation of the mRNA guanosine cap by RNMT. RNMT catalyzes the transfer of a methyl group



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from AdoMet (S-adenosylmethionine) to the GpppN end of the growing mRNA at the N-7 position, thereby producing AdoHyc (S-adenosylhomocysteine) and m7GpppN terminated RNA. Recombinant human RNMT protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

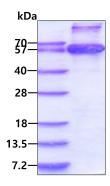
<MGSSHHHHHH SSGLVPRGSH> MANSAKAEEY EKMSLEQAKA SVNSETESSF NINENTTASG TGLSEKTSVC RQVDIARKRK EFEDDLVKES SSCGKDTPSK KRKLDPEIVP EEKDCGDAEG NSKKRKRETE DVPKDKSSTG DGTQNKRKIA LEDVPEKQKN LEEGHSSTVA AHYNELQEVG LEKRSQSRIF YLRNFNNWMK SVLIGEFLEK VRQKKKRDIT VLDLGCGKGG DLLKWKKGRI NKLVCTDIAD VSVKQCQQRY EDMKNRRDSE YIFSAEFITA DSSKELLIDK FRDPQMCFDI CSCQFVCHYS FESYEQADMM LRNACERLSP GGYFIGTTPN SFELIRRLEA SETESFGNEI YTVKFQKKGD YPLFGCKYDF NLEGVVDVPE FLVYFPLLNE MAKKYNMKLV YKKTFLEFYE EKIKNNENKM LLKRMQALEP YPANESSKLV SEKVDDYEHA AKYMKNSQVR LPLGTLSKSE WEATSIYLVF AFEKQQ

#### **General References**

Cowling VH, et al. (2010) Genes Cancer. 1(6):576-579. Cowling VH, et al. (2010) Oncogene. 29(6):930-6.

### **DATA**

#### **SDS-PAGE**



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

