

## RNMT Human

**Description:** RNMT produced in E.Coli is a single, non-glycosylated polypeptide chain containing 496 amino acids (1-476 a.a.) and having a molecular mass of 57kDa. RNMT is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-121

For research use only.

**Synonyms:** mRNA cap guanine-N7 methyltransferase, RG7MT1, mRNA (guanine-N(7)-)-methyltransferase, mRNA cap methyltransferase, hCMT1, hMet, hcm1p, RNMT, KIAA0398, MET, RG7MT1, hCMT1c, DKFZp686H1252.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MANSAKAEY EKMSLEQAKA  
SVNSETESSF NINENTTASG TGLSEKTSVC RQVDIARKRK EFEDDLVKES SSCGKDTPSK  
KRKLDPEIVP EEKDCGDAEG NSKKRRETE DVPKDKSSTG DGTQNKRKIA LEDVPEKQKN  
LEEGHSSTVA AHYNELQEVG LEKRSQSRIF YLRNFNNWMK SVLIGEFLEK VRQKKRDIT  
VLDLGCCKGG DL

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

RNMT solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) 2mM DTT, 20% glycerol and 100mM NaCl.

**Stability:**

RNMT Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

RNMT is a widely expressed nuclear protein which is a member of 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 from AdoMet (S-adenosylmethionine) to the GpppN end of the growing mRNA at the N-7 position, thus producing AdoHyc (S-adenosylhomocysteine) and m7GpppN terminated RNA.

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