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RNMT Human

Catalog #:ENPS-121

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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.

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 MANSAKAEEY EKMSLEQAKA SVNSETESSF NINENTTASG TGLSEKTSVC RQVDIARKRK EFEDDLVKES SSCGKDTPSK KRKLDPEIVP EEKDCGDAEG NSKKRKRETE DVPKDKSSTG DGTQNKRKIA LEDVPEKQKN LEEGHSSTVA AHYNELQEVG LEKRSQSRIF YLRNFNNWMK SVLIGEFLEK VRQKKKRDIT VLDLGCGKGG 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 althoμgh stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Usage:
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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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