
Product Data Sheet

Product Name: RNMT Human
 Cat. No.: GP22228
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	mRNA cap guanine-N7 methyltransferase; RG7MT1; mRNA (guanine-N(7)-)-methyltransferase; mRNA cap methyltransferase; hCMT1; hMet; hcm1p; RNMT; KIAA0398; MET; RG7MT1; hCMT1c; DKFZp686H1252.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MANSAKAEY EKMSLEQAKA SVNSETESSF NINENTTASG TGLSEKTSVC RQVDIARKRK EFEDDLVKES SSCGKDTPSK KRKLDPEIVP EEKDCGDAEG NSKKRKRETE DVPKDKSSTG DGTQNKRKIA LEDVPEKQKN LEEGHSSTVA AHYNELQEVG LEKRSQSRIF YLRNFNNWMK SVLIGEFLEK VRQKKKRDI VLDLGCGKGG DLLKWKKGRI NKLVCTDIAD VSVKQCQORY EDMKNRRDSE YIFSAEFITA DSSKELLIDK FRDPQMCFDI CSCQFVCHYS FESYEQADMM LRNACERLSP GGYFIGTTPN SFELIRLEA SETESFGNEI YTVKFQKKGD YPLFGCKYDF NLEGVVDVPE FLVYFPLLNE MAKKYNMMLV YKKTFLFYE EKIKNNENKM LLKRMQALEP YPANESSKLV SEKVDDYEHA AKYMKNSQVR LPLGTLKSE WEATSIYLVF AFEKQQ.		
Formulation	RNMT solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) 2mM DTT, 20% glycerol and 100mM NaCl.		

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.

Stability

RNMT Human Recombinant although stable at 4°C for 1 week. should be stored below -

Caution: Product has not been fully validated for medical applications. For research use only.

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18°C . Please prevent freeze thaw cycles.

Background

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.

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