

Recombinant Human RNMT, His-tagged

Cat. No. RNMT-3535H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanRNMT protein, fused to His-tag at N-terminus, was expressed in E. coliand purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	RNMT is a widelyexpressed nuclear protein that belongs to the mRNA cap methyltransferasefamily. Cap-dependent mRNA translation requires the methylation of the mRNAguanosine cap by RNMT. RNMT catalyzes the transfer of a methyl group fromAdoMet (S-adenosylmethionine) to the GpppN end of the growing mRNA at the N-7position, thereby producing AdoHyc (S-adenosylhomocysteine) and m7GpppNterminated RNA.
Application	SDS-PAGE
Form	Liquid. In 20mMTris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 100mM NaCl.
Molecular Weight	57.0 kDa (496aa)
Purity	> 90% by SDS-PAGE
Concentration	0.5 mg/ml(determined by Bradford assay)

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Sequences of aminoacids

MGSSHHHHHSSGLVPRGSHMANSAKAEY EKMSLEQAKA SVNSETESSF
 NINENTTASG TGLSEKTSVCRQVDIARKRK EFEDDLVKES SSCGKDTPSK
 KRKLDPEIVP EEKDCGDAEG NSKKRKRETE DVPKDKSSTGDGTQNKRIA
 LEDVPEKQKN LEEGHSSTVA AHYNELQEVG LEKRSQSRIF YLRNFNNWMK
 SVLIGEFLEKVRQKKKRIT VLDLGCGKGG DLLKWKKGRI NKLVTCTDIAD
 VSVKQCQQRV EDMKNRRDSE YIFSAEFITADSSKELLIDK FRDPQMCIDI
 CSCQFVCHYS FESYEQADMM LRNACERLSP GGYFIGTTPN
 SFELIRLEASETESFGNEI YTVKFQKKGD YPLFGCKYDF NLEGVVDVPE
 FLVYFPLLNE MAKKYNMKLV YKKTFLFYEEKIKNNENKM LLKRMQALEP
 YPANESSKLV SEKVDDYEHA AKYMKNSQVR LPLGTLSKSE
 WEATSIYLVFAFEKQQ

Storage

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

OfficialSymbol

RNMT

GENE INFORMATION

Gene Name

[RNMT RNA \(guanine-7- \)methyltransferase \[Homo sapiens \]](#)

Synonyms

RNMT; RNA (guanine-7-) methyltransferase; mRNA cap guanine-N7methyltransferase; RG7MT1; MET; hCMT1c; KIAA0398;hMet; mRNA (guanine-N(7)-) methyltransferase; mRNA cap methyltransferase; EC2.1.1.56; DKFZp686H1252; OTTHUMP00000162509; mRNA (guanine-7-)methyltransferase

Gene ID

[8731](#)

mRNA Refseq

[NM_003799](#)

Protein Refseq

[NP_003790](#)

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MIM	603514
UniProt ID	O43148
Chromosome Location	18p11.21
Pathway	Gene Expression; HIV Infection; HIV LifeCycle; Late Phase of HIV Life Cycle; Disease; RNA Pol II CTD phosphorylationand interaction with CE; RNA Polymerase II Transcription; Transcription ofthe HIV genome; mRNA Capping; mRNA processing; mRNA surveillance pathway
Function	RNA binding; mRNA(guanine-N7-)-methyltransferase activity; methyltransferase activity;transferase activity; protein binding
Renderingbased on PDB 3BGV.	