

Recombinant Human RNMT, His-tagged

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

SPECIFICATION

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|-------------------------|---|
| 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 NSKKRKRRETE DVPKDKSSTGDGTQNKRKIA
 LEDVPEKQKN LEEGHSSTVA AHYNELQEVG LEKRSQSRIF YLRNFNNWMK
 SVLIGEFLEKVRQKKKRIT VLDLGCCKGG DLLKWKKGRI NKLVTCTDIAD
 VSVKQCQQRQY EDMKNRRDSE YIFSAEFITADSSKELLIDK FRDPQMCFDI
 CSCQFVCHYS FESYEQADMM LRNACERLSP GGYFIGTTPN
 SFELIRRLEASETESFGNEI YTVKFQKKGD YPLFGCKYDF NLEGVVDVPE
 FLVYFPLLNE MAKKYNMMLV 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](#)

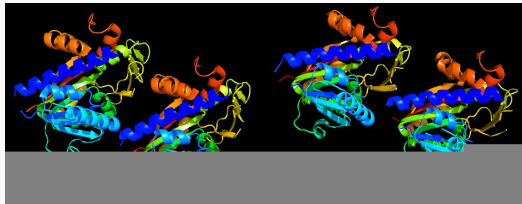
Protein Refseq

[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 phosphorylation and interaction with CE; RNA Polymerase II Transcription; Transcription of the HIV genome; mRNA Capping; mRNA processing; mRNA surveillance pathway |
| Function | RNA binding; mRNA(guanine-N7-)-methyltransferase activity; methyltransferase activity; transferase activity; protein binding |
| Rendering based on PDB 3BGV. |  |

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