

Product information

RNMT, 1-476aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1068

Full name: mRNA cap guanine-N7 methyltransferase

NCBI Accession No.: NP_003790

Synonyms: hCMT1c, MET, RG7MT1

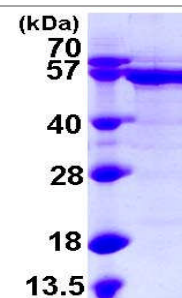
Description: RNMT (mRNA cap guanine-N7 methyltransferase), also known as MET, RG7MT1 or hCMT1c, is a widely expressed nuclear protein that belongs to the mRNA cap methyltransferase family. Cap-dependent mRNA translation requires the methylation of the mRNA guanosine cap by RNMT. RNMT catalyzes the transfer of a methyl group from AdoMet (S-adenosylmethionine) to the GpppN end of the growing mRNA at the N-7 position, thereby producing AdoHyc (S-adenosylhomocysteine) and m7GpppN terminated RNA. Recombinant human RNMT protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT,
20% glycerol, 100mM NaCl

Molecular Weight: 57.0kDa (496aa)

Purity: > 90% by SDS - PAGE

Concentration: 0.5mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MANSKAEY EKMSLEQAKA SVNSETSSF NINENTTASG TGLSEKTSVC RQVDIARKRK EFEDDLVKES
SSCGKDTPSK KRKLDP EIVP EEKDCGDAEG NSKKRKRETE DVPKDKSSTG DGTQNKRIK LEDVPEKQKN LEEGHSSTVA AHYNELQEVG
LEKRSQSRIF YLRNFNWMMK SVLIGEFLEK VRQKKKRDIT VLDLGCCKGG DLLKWKKGRI NKLVCTDIAD VSVKQCQQR Y EDMKNRRDSE
YIFSAEFITA DSSKELLIDK FRDPQMCDFI CSCQFVCHYS FESYEQADMM LRNACERLSP GGYFIGTTPN SFELIRLEA SETESFGNEI
YTVKFQKKGD YPLFGCKYDF NLEGVVDVPE FLVYFPLLNE MAKKNMMLV YKKTFLFYE EKIKNNENKM LLKRMQALEP YPANESSKL
SEKVDYEA AKYMKNSQVR LPLGTLKSE WEATSIYLVF AFEKQQ

General references:

Cowling VH, *et al.* (2010) *Genes Cancer*. 1(6):576-579.

Cowling VH, *et al.* (2010) *Oncogene*. 29(6):930-6.

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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.