

RNMT, 1-476aa, Human, His tag, E.coli

Cat.NO.: TP03759

3th Edition

Synonyms:mRNA cap guanine-N7 methyltransferase, 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.

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

Molecular Weight:57.0kDa (496aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMANSKAEYEKMSLEQAKASVNSETESSFNINENTTASGTGLSEKTSVCRQVDI
ARKRKEFEDDLVKESSSCGKDTPSKRRKLDPEIVPEEKDCGDAEGNSKRRKRETEDVPKDKSSTGDGTQNKRIAL
EDVPEKQKNLEEGHSSTVAAHYNELQEVGLEKRSQSRIFYLRNFNNWMKSVLIGEFLEKVRQKKKRDITVLDLGGC
KGGDLLKWKKGRINKLVCTDIADVSVKQCQQRVEDMKNRRDSEYIFSAEFITADSSKELLIDKFRDPQMCFDICSCQ
FVCHYSFESYEQADMMLRNACERLSPGGYFIGTTPNSFELIRRLEASETESFGNEIYTVKFQKKGDYPLFGCKYDFN
LEGVVDVPEFLVYFPLLNEMAKKYNMMLVYKKTFLFYEEKIKNNENKMLLKRMQALEPYPANESSKLVSEKVDDYE
HAAKYMKNSQVRLPLGTLKSEWEATSIYLVFAFEKQQ

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.