

methyltransferase cap2

Cat. No. EXWM-1903

Lot. No. (See product label)

Introduction

Description

The enzyme, found in higher eukaryotes including insects and vertebrates, and their viruses, methylates the ribose of the ribonucleotide at the second transcribed position of mRNAs and snRNAs. This methylation event is known as cap2. The human enzyme can also methylate mRNA molecules where the upstream purine ribonucleotide is not methylated (see EC 2.1.1.57, methyltransferase cap1), but with lower efficiency.

Synonyms

MTR2; cap2-MTase; mRNA (nucleoside-2'-O)-methyltransferase (ambiguous)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.1.1.296

Reaction

S-adenosyl-L-methionine + a 5'-(N7-methyl 5'-triphosphoguanosine)-(2'-O-methyl-purine-ribonucleotide)-(ribonucleotide)-[mRNA] = S-adenosyl-L-homocysteine + a 5'-(N7-methyl 5'-triphosphoguanosine)-(2'-O-methyl-purine-ribonucleotide)-(2'-O-methyl-ribonucleotide)-[mRNA]

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.