

methyltransferase cap1

Cat. No. EXWM-1959

Lot. No. (See product label)

Introduction

Description

This enzyme catalyses the methylation of the ribose on the first transcribed nucleotide of mRNA or snRNA molecules, which may be either guanosine or adenosine. This methylation event is known as cap1, and occurs in all mRNAs and snRNAs of higher eukaryotes, including insects, vertebrates and their viruses. The human enzyme can also methylate mRNA molecules that lack methylation on the capping 5'-triphosphoguanosine.

Synonyms

messenger ribonucleate nucleoside 2'-methyltransferase; messenger RNA (nucleoside-2'-)-methyltransferase; MTR1; cap1-MTase; mRNA (nucleoside-2'-O)-methyltransferase (ambiguous); S-adenosyl-L-methionine:mRNA (nucleoside-2'-O)-methyltransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.1.1.57

CAS No.

61970-02-3

Reaction

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