Creative Enzymes
Diagnostic Enzymes

mRNA Cap-2'-O-Methyltransferase

Product Information

Cat#	DIA-768
Descriptions	mRNA Cap-2'-O-Methyltransferase catalyzes 2'-O-ribose methylation of the first nucleotide adjacent to the mRNA 5' cap structure, enhances mRNA stability and translation efficiency, and mediates evasion of host innate immune recognition.
Applications	mRNA Cap-2'-O-Methyltransferase is suitable for mRNA quality detection kits and innate immune evasion mechanism assay reagent development.
CAS No.	61970-02-3
Enzyme Commission Number	EC 2.1.1.57
Enzyme Source	E. coli
Reaction	This product is the of vaccinia virus | Specifically transfers the methyl of methylation donator SAM to the Cap0 structure in RNA to form the Cap1 structure, which can enhance the translation efficiency of mRNA and avoid the innate immune response in certain cells.
Activity Definition	1 active unit is defined as the amount of enzyme needed to incorporate 10 pmol of (α32P)GTP into 80nt transcript within 1h at 37°C.

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