



mRNA Cap 2'-O-methyltransferase

mRNA Cap 2'-O-methyltransferase enzyme adds a methyl group at the 2'-O position of the first nucleotide adjacent to the cap structure at the 5' end of the RNA. The enzyme utilizes S-adenosylmethionine (SAM) as a methyl donor to methylate capped RNA (cap-0) resulting in a cap-1 structure. The Cap 1 structure can increase the translation efficiency, improving the expression of mRNA in transfection and microinjection experiments. This enzyme specifically requires RNA with an m7GpppN cap as substrate. It cannot utilize RNA with pN, ppN, pppN or GpppN at the 5'end. Capped RNA may be prepared via in vitro transcription using cap analog or through enzymatic capping using the Vaccinia Capping Enzyme.

Cocentration: 50U/ μ L

Units/Pk: 2500U/50 μ L; 10000U/200 μ L; 50000U/1mL

Supplied with optimized reaction buffer for high yield & purity.

This product is produced by GMP process requirements while using Animal Origin Free (AOF) production process; and it is free from DNase & RNase contamination.

Catalog No.	56140021
Size	50 μ L / 200 μ L / 1mL
Product Category	mRNA Raw Material