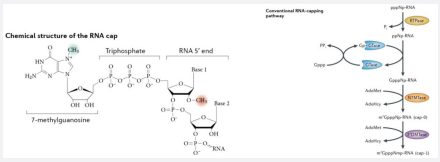
GMP Grade Bioactive

# mRNA Cap 2′-O-Methyltransferase

Catalog # DM0018 Size 50 kU

## Applications

### In vitro Transcription




mRNA cap structure 2'-O-methyl transferase mechanism of action.

## Specification

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|---|---|
| **Product Description** | mRNA Cap 2´-O-Methyltransferase can add a methyl group to the 2´-O of the first nucleotide of the Cap0 structure, [m7GpppN1(pN)x-OH(3')], next to the RNA 5´ end. Methylation of capped mRNA from Cap 0 to Cap1 naturally exists in eukaryocyte, where the Cap1 structure shows an important effect for translation, thus for expression as well. This product doesn't show a reactivity to RNA substrate other than RNA with Cap0 structure. |
| **Form** | Liquid |
| **Purity** | 95% ≤ |
| **Activity** | 50 KU/mL to 52.5 KU/mL |
| **Recommend Usage** | Methylate the 2´-O of the first nucleotide of the Cap0 structure, to realize mRNA translation and expression.<br>The optimal working dilution should be determined by the end user. |
| **Regulatory Status** | GMP grade |
| **Storage Buffer** | 20 mM Tris-HCl pH8.0, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 0.1% TritonX-100, 50% (v/v) Glycerol. |

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| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |

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