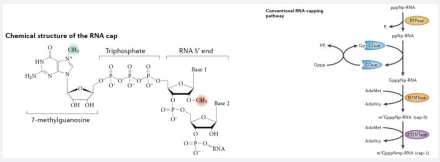
GMP Grade Bioactive

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

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. 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. Aliquot to avoid repeated freezing and thawing.

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