

Certificate of Analysis

Product Name	m7G(5')ppp(5')(2' OMeA)pG		
Cat. No.	GN20149	CAS No.	N/A
Lot No.	1	Formula	C ₃₂ H ₄₃ N ₁₅ O ₂₄ P ₄ (free acid)
Quantity	1mL	Mol. Weight	1145.66 g/mol

QC TEST	QC SPECIFICATIONS	RESULTS
Appearance	Clear Colorless Solution	Conforms
Identification (NMR)	Conforms to the Structure	Conforms
Concentration	100 ± 5mM	101 mM
pH Value	6.3 ± 0.2	6.3
Purity by HPLC	≥ 95%	99.5%
Endotoxin	≤ 1.0 EU/mL	Conforms
Endonuclease Assay	No Detectable Endonuclease Activity, When Incubated with Plasmid DNA at 37°C for 3 hours.	Conforms
Exonuclease Assay	No Detectable Exonuclease Activity, When Incubated with DNA Substrate at 37°C for 3 hours	Conforms
Ribonuclease Assay	No Detectable Ribonuclease Activity, When Incubated with the RNA Substrate at 37°C for 3 hours.	Conforms
Functional Assay	The Product has been Functionally Tested in the in vitro Transcription Reaction	
Storage Conditions	Store Sealed at -20°C ± 5°C Avoid Multiple Freeze-Thaw Cycles or Exposure to Frequent Temperature Changes	

Caution: Product has not been fully validated for medical applications. For research use only.
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