

Product Data Sheet

Product Name: m7(3'OMeG)(5')ppp(5')(2'OMeA)pG

Cat. No.: GN20152

Chemical Properties

Purity	>95.00%	Extinction Coefficient	30,539 Lmol ⁻¹ cm ⁻¹ at 255 nm
Formula	C ₃₃ H ₄₅ N ₁₅ O ₂₄ P ₄ (free acid)	M.Wt	1159.6
Salt Form	Na ⁺	Concentration	
Buffer	H ₂ O	Storage	-20°C or below
Synonyms	3'OMe-m7GpppAmpG	Backbone	5'-5'-Triphosphate
Base Analog	Adenosine, Guanosine	Sugar Type	
Nucleotide Category	Cap analogs		
Applications	CRISPR, In vitro Transcription, Recombinases, TALENS, Transposases, Vaccine Development, Zinc Finger Nucleases		

Background

m7(3'OMeG)(5')ppp(5')(2'OMeA)pG is a co-transcriptional capping reagent that can produce Cap 1 structure with a capping efficiency of up to 98%. m7(3'OMeG)(5')ppp(5')(2'OMeA)pG needs to be used with a specific 5' AG 3' start sequence.

Compared with Cap 0 structure (ARCA and mCap capping), mRNA with Cap 1 structure is more suitable for mammalian systems and has higher transcription and translation efficiency. It is often used in protein production, RNA therapy and vaccine research.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA