

Tissue plasminogen activator In Vitro Transcribed mRNA-LNP

Catalog Number:SG-MRNA-LNP-1911

DESCRIPTION	
Product Name	Tissue plasminogen activator In Vitro Transcribed mRNA-LNP
Gene Name	tPA
Source	The ORF of Tissue plasminogen activator was cloned in our IVT vector and mRNA was prepared through in vitro transcription and purification. The purified mRNA was further encapsulated with LNP(DSPC:Cholesterol:DMG-PEG:SM102).
Alternative names	Tissue plasminogen activator
SPECIFICATIONS	
Cap	m7GpppN
5'-UTR	5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence
ORF	Tissue plasminogen activator
3'-UTR	3' UTR comprising two sequence elements derived from the aminoterminal enhancer of split (AES) mRNA and the mitochondrial encoded 12S ribosomal RNA
Poly(A) Tail	A 110-nucleotide poly(A)-tail consisting of a stretch of 30 adenosine residues, followed by a 10-nucleotide linker sequence and another 70 adenosine residues.
Modifications	N1-methyl-pseudouridine
Neutral Lipid	1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC)
Cholesterol	Cholesterol
Ionizable Lipid	1,2-dimyristoyl-rac-glycero-3-methoxypolyethylene glycol-2000 (PEG2000-DMG)
PEG-lipid	Heptadecan-9-yl 8-((2-hydroxyethyl)(8-(nonyloxy)-8-oxooctyl)amino)octanoate)(SM-102)
Storage	-20 °C
Buffer	PBS, pH7.4
Cryoprotectant	Trehalose
BACKGROUND	
Gene Accession	
Gene Alias	Tissue plasminogen activator

fibrin, the alteplase-mediated conversion of plasminogen is limited, thanks to the high affinity between alteplase and fibrin.

Background

Alteplase is a recombinant tissue plasminogen activator (rt-PA) used as a thrombolytic agent. It cleaves plasminogen to form plasmin, an enzyme involved in the degradation of fibrin clots. In the absence of