Seattle Genova
Tel: +1 (425) 247-3088 Fax: +1 (425) 650-9990
Email: info@seattle-genova.com Web: www.seattle-genova.com
Address: 18110 SE 34TH ST STE 455, Vancouver, WA 98683

Streptokinase In Vitro Transcribed mRNA-LNP

Catalog Number:SG-MRNA-LNP-1923

DESCRIPTION	
Product Name	Streptokinase In Vitro Transcribed mRNA-LNP
Gene Name	Streptokinase
Source	The ORF of Streptokinase 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	Streptokinase
SPECIFICATIONS	
Cap	m7GpppN
5'-UTR	5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence
ORF	Streptokinase
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
Lonizable 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	Streptokinase

	Plasmin breaks down fibrin clots created by the blood clotting cascade. Streptokinase forms a highly specific 1:1 enzymatic complex with plasminogen which converts inactive plasminogen molecules into active plasmin. Plasmin degrades fibrin clots as well as fibrinogen and other plasma proteins. This in turn leads to the degradation of blood clots.
Background	Streptokinase is a purified fibrinolytic bacterial protein used to breakdown thrombosis in myocardial infarction, pulmonary embolism, and venous thromboembolism. Plasminogen is an inactive molecule that becomes activated to plasmin when the Arg/Val bond is cleaved.