

Streptavidin In Vitro Transcribed mRNA-LNP

Catalog Number:MRNA-TG-005

DESCRIPTION	
Product Name	Streptavidin In Vitro Transcribed mRNA-LNP
Gene Name	Streptavidin
Source	In vitro transcribed mRNA encapsulated with LNP
Alternative names	
SPECIFICATIONS	
Сар	Cap 1
5'-UTR	5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence
ORF	Streptavidin
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	



biotin complex's resistance to organic solvents, denaturants (e.g.
guanidinium chloride), detergents (e.g. SDS, Triton X-100), proteolytic
enzymes, and extremes of temperature and pH.BackgroundStreptavidin is a 66.0 (tetramer) kDa protein purified from the
bacterium Streptomyces avidinii. Streptavidin homo-tetramers have an
extraordinarily high affinity for biotin (also known as vitamin B7 or
vitamin H). With a dissociation constant (Kd) on the order of ≈10−14
mol/L, the binding of biotin to streptavidin is one of the strongest non-
covalent interactions known in nature. Streptavidin is used extensively
in molecular biology and bionanotechnology due to the streptavidin-