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L-Asparaginase In Vitro Transcribed mRNA-LNP

Catalog Number:SG-MRNA-LNP-1921

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

	which is needed for general cellular metabolism.
Background	Asparaginase derived from Escherichia coli (L-asparagine amidohydrolase, EC 3.5.1.1) is an enzyme responsible for the metabolism of L-asparagine, by catalyzing L-asparagine into L-aspartic acid and ammonia. It also facilitates the production of oxaloacetate