

Sargramostim36, 37 In Vitro Transcribed mRNA-LNP

Catalog Number:SG-MRNA-LNP-1876

DESCRIPTION	
Product Name	Sargramostim36, 37 In Vitro Transcribed mRNA-LNP
Gene Name	GM-CSF
Source	The ORF of Sargramostim36, 37 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	Sargramostim36, 37
SPECIFICATIONS	
Cap	m7GpppN
5'-UTR	5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence
ORF	Sargramostim36, 37
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	Sargramostim

stimulates a JAK2 STAT1/STAT3 signal transduction pathway. This leads to the production of hemopoietic cells and neutrophils.

Background

Sargramostim is a modified form of recombinant human granulocyte-macrophage colony stimulating factor used to increase immune cell production. Sargramostim binds to the Granulocyte-macrophage colony stimulating factor receptor (GM-CSF-R-alpha or CSF2R) which