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

Interferon-α2a In Vitro Transcribed mRNA-LNP

Catalog Number:SG-MRNA-LNP-1884

DESCRIPTION	
Product Name	Interferon-α2a In Vitro Transcribed mRNA-LNP
Gene Name	IFN-α2a
Source	The ORF of Interferon-α2a 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	Interferon-α2a
SPECIFICATIONS	
Cap	m7GpppN
5'-UTR	5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence
ORF	Interferon-α2a
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	Interferon-α2a

	proliferation activities of IFN-α 2a. IFN-α proteins are widely used as standard treatments during antiviral and antineoplastic therapies. The IFN-α 2a variant differs from IFN-α 2b by one amino acid.
Background	Human IFN-α2a is a recombinant protein optimized for use in cell culture, differentiation studies, and functional assays. Interferon-α 2a (IFN-α 2a) is a type I interferon made by leukocytes during viral infection. The JAK-STAT pathway mediates the antiviral and anti-cell