

Seattle Genova

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Lutropin-α In Vitro Transcribed mRNA-LNP

Catalog Number:SG-MRNA-LNP-1880

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



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(LH) developed for use in the stimulation of follicular development. Its pharmacological action mimics the biological activity of endogenous LH; an acute rise of LH, or LH surge, in females triggers ovulation and the development of the corpous luteum. In males, LH stimulates Leydig cell to produce testosterone.

Background

Lutropin alfa is a recombinant human luteinizing hormone with 2 subunits, alpha = 92 residues, beta = 121 residues. It is a heterodimeric glycoprotein made up of monomeric units. Lutropin alfa was the first and only recombinant human form of luteinizing hormone