

## Teriparatide In Vitro Transcribed mRNA-LNP

Catalog Number:SG-MRNA-LNP-1891

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

phosphate metabolism in bone and kidney. It regulates bone metabolism, renal tubular reabsorption of calcium and phosphate, and intestinal calcium absorption. It mediates its physiological actions by binding to the PTH receptors.

**Background**

Teriparatide is a recombinant parathyroid hormone (PTH) analog and a potent osteoanabolic agent. It is made up of the first amino(N)-terminal 34 amino acids of the human PTH. Parathyroid hormone (PTH) is an endogenous hormone that regulates calcium and