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# FKBP/Casp8 In Vitro Transcribed mRNA-LNP

Catalog Number:MRNA-TG-023

| DESCRIPTION | |
|---|---|
| Product Name | FKBP/Casp8 In Vitro Transcribed mRNA-LNP |
| Gene Name | FKBP/Casp8 |
| Source | In vitro transcribed mRNA encapsulated with LNP |
| Alternative names | |
| **SPECIFICATIONS** | |
| Cap | Cap 1 |
| 5'-UTR | 5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence |
| ORF | FKBP/Casp8 |
| 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 | |
| Background | FKBP-CASP8 protein is a chimeric protein composed of the binding domain of FK506-binding protein (FKBP) and the protease domain of CASP8. The previous report showed that conversion to the active form by autoprocessing occurs only when this molecule is dimerized by a synthetic divalent FKBP ligand. This property excludes the possibility of autoactivation by self-oligomerization. |