

LNP-0315

Catalog Number	Packaging Size
LP008-1	1 mL
LP008-2	5 mL
LP008-3	10 mL
LP008-4	50 mL

Storage upon receipt: -20°C

LNP-0315 is a lipid nanoparticle (LNP) formulated with ALC-0315, DSPC, Cholesterol, and ALC-0159. **LNP-0315** is formulated at optimal molar ratio for efficient delivery of mRNA-based vaccines.

LNP-0315 is supplied at 10 mg/mL stock solution in ethanol.

For research use only.

General Protocol for LNP-siRNA/mRNA Formulations

- 1. Prepare the siRNA or mRNA solution in 50 mM sodium acetate buffer (pH 5.0). The concentration should be adjusted based on the weight ratio of LNP : siRNA/mRNA.
- The siRNA or mRNA solution is combined with LNP-0315 at a ratio of 3:1 (aqueous : ethanol) using a microfluidic mixer (Precision Nanosystems, Vancouver, BC). If no microfluidic mixer available, the siRNA or mRNA solution is combined with LNP-0315, and stirred at room temperature for 30 min.
- 3. Formulations are dialyzed against PBS (pH 7.4) in dialysis cassettes for 24 h.
- 4. Formulations are concentrated using Amicon ultra centrifugal filters (EMD Millipore, Billerica, MA).
- 5. The concentrates are passed through a 0.22-µm filter, and store at 4°C until use.