7040 Virginia Manor Road
Beltsville, MD 20705, USA
Web: www.abpbio.com;
Email: info@abpbio.com

LNP-102

Catalog Number	Packaging Size
LP007-1	1 mL
LP007-2	5 mL
LP007-3	10 mL
LP007-4	50 mL

Storage upon receipt: -20°C

LNP-102 is a lipid nanoparticle (LNP) formulated with SM-102, DSPC, Cholesterol, and DMG-PEG2000. LNP-102 is formulated at optimal molar ratio for efficient delivery of mRNA-based vaccines.

LNP-102 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.
2. The siRNA or mRNA solution is combined with LNP-102 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-102, 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^{o}C until use.