

Datasheet

LipidFlex™ Lipid Nanoparticle Formulation Kit, 3-Lipid Mix and Ionizable Lipid

Product Overview

Ready-to-use 3-component lipid mixture for generation of liposomes and lipid nanoparticles (LNPs). Compatible with various cationic/ionizable lipids for nucleic acid and small molecule encapsulation applications.

APPLICATIONS

- mRNA, circRNA, siRNA, DNA delivery
- Protein and peptide encapsulation
- Small molecule drug delivery
- Vaccine formulation research
- Gene therapy applications
- In vitro and in vivo studies

TECHNICAL SPECIFICATIONS

Parameter	Specification
Components	Structural Lipid/Cholesterol/Stabilizer
Volume	1000 µL
Concentration	30 mM total lipids
Physical State	Liquid solution
Appearance	Clear to slightly opalescent
Solvent System	Organic solvent mixture

COMPATIBILITY

- Ionizable Lipids: MC3, SM-102, LP-01, ALC-0315, and others
- Buffer Systems: Various pH and ionic strength conditions
- N/P Ratios: Flexible ratios for optimization

- Payloads: Nucleic acids, proteins, small molecules

STORAGE & STABILITY

Parameter	Requirement
Storage Temperature	-20°C or below
Shelf Life	12 months at -20°C
Shipping	Dry ice
Protection Requirements	Store away from light and moisture

ORDERING INFORMATION

Catalog #	Product Size	Price
PG-LPF-Q1ML	1000 µL	Contact for pricing

Custom Solutions

Custom lipid formulations, antibody conjugation protocols, and bulk kits are available. Technical support and consultation services are provided for protocol optimization and troubleshooting.

Important Notes

For Research Use Only. This product is not for human or veterinary use.

For technical support, custom formulations, or bulk orders, please contact us.

Additional Considerations:

- Performance may vary depending on cell type and experimental conditions
- Optimal formulation conditions should be determined empirically
- Product specifications subject to batch-specific variations
- Refer to Certificate of Analysis for lot-specific data