



LNP 2.0 platform for RNA Technology

PRODUCT DATA SHEET

Document No.: PDS-NV2004 Revision: 1.0 Effective Date: JUL/2026

1 Product Identification

Company Logo &
Contact info



info@neovac.co.uk

Product Name: LipTx™ NV2-004

Catalog Number: NV2004

2 Product Description

2.1 Short summary

LipTx™ NV2-004 is a proprietary ionizable lipid developed by NeoVac for nucleic acid delivery applications. The lipid is designed to facilitate efficient nucleic acid encapsulation during LNP manufacturing while supporting intracellular delivery through pH-dependent ionization.

2.2 Intended use

For Research Use Only (RUO).

Use for Lipid Nanoparticle (LNP) Formulation for nucleic acid delivery.

Not intended for any human use, therapeutic administration, diagnostic procedures, food, or veterinary use.

2.3 Availability and lead times

Grade	Availability
Research Use Only (RUO)	On Stock
GMP Grade Material	Available Upon Request



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Catalog Number	Quantity	Price [USD]
NV2004-025MG	25 mg	650
NV2004-100MG	100 mg	1,950
NV2004-001G	1 g	9,950

Lead times:

- Gram Production: 6 – 8 weeks
- GMP Grade Material: 6 -12 months

3 Product Specifications

3.1 Molecular weight

707.18 g/mol

3.2 Purity

Purity ≥95 %.

3.3 Appearance

Pale yellow colour viscous liquid.

3.4 Solubility profile

Max. 50 mg/ml in: Ethanol (EtOH), Methanol (MeOH), Chloroform, Isopropanol (IPA) and Dimethyl sulfoxide (DMSO).

4 Storage and Stability

4.1 Storage

Store at –80°C in tightly closed container for best shelf life.



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For storage at -20°C more frequent assay and impurities retests are recommended.

Recommended:

- Store in original container.
- Protect from moisture and oxygen.
- Minimize freeze-thaw cycles.
- Protect from prolonged exposure to light.

4.2 Shelf life

Initial shelf life at -80°C 12 months. Retests of assay and impurities for shelf-life extension possible.

5 Troubleshooting Guide

5.1 Documentation

- Material; Safety Data Sheet (MSDS)
- Certificate of Analysis (CoA)
- Regulatory Package (Optional) – available under the CDA.

5.2 Legal and Ordering information

This product is supplied for research and development use only. **NOT FOR CLINICAL USE.**

5.3 Disclaimer

NeoVac products are supplied For Research Use Only (RUO) and are not intended for use in humans or animals for therapeutic, diagnostic, or clinical purposes.

These products are intended solely for laboratory research by qualified personnel using appropriate laboratory practices and in accordance with the applicable Instructions for Use (IFU), Material Safety Data Sheet (MSDS), and all relevant product documentation. Users are solely responsible for determining the suitability of the product for their intended research application and for ensuring compliance with all applicable laws, regulations, and institutional requirements.





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5.4 Contact and Technical support

info@neovac.co.uk

