

LipidLaunch™ Research Tools for LNP Discovery



Cayman has pioneered the development of LipidLaunch™ research tools for lipid nanoparticle (LNP) research and development. Our LipidLaunch™ research-ready LNPs and reagent kits help researchers pursue LNPs for the delivery of nucleic acid therapies in untold health applications, from vaccine development to cancer and cell or gene therapies.

LipidLaunch™ LNPs and Reagent Kits

Streamline selection of candidate ionizable lipids and benefit from research-ready LNPs and reagent kits for the delivery of nucleic acid therapies.

Available in multiple
LNP & reporter formats

Easy to use &
cost effective

Minimal hands-on
time & expertise

Efficient transfection
with low cytotoxicity



Preloaded LNPs

Preformulated LNPs
containing reporter
gene mRNA



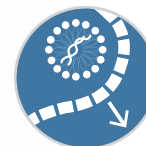
Loadable LNPs

Cargo-ready, loadable
LNPs for encapsulating
cargo of choice



Exploration Kits

Complete sets of lipid
reagents for preparing LNPs
of broad and current interest



Uptake Kits

Complete sets of lipid reagents
and a fluorescent tracer to
visualize LNP cellular uptake

Featured Collection

SM-102

LipidLaunch™ research tools employ the same lipid formulations as LNPs of broad and current interest, including those used for mRNA-based COVID-19 vaccines.



Explore our LipidLaunch™
products for SM-102 LNPs at
www.caymanchem.com/sm-102-lipidlaunch

Applicable for Every Step of Discovery




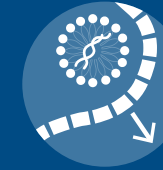
- Proof-of-Concept Studies
- Formulation Screening & Optimization
- Comparison to Benchmark Formulations
- Explorations on Uptake Mechanisms



View all LipidLaunch™ Research Tools at
www.caymanchem.com/lipidlaunch

Selecting the Right LipidLaunch™ Research Tool

From discovery to bioanalysis, we offer a range of purpose-built solutions to support your LNP expedition – whether just testing the waters or exploring the deep.

	 Preloaded LNPs	 Loadable LNPs	 LNP Exploration Kits	 LNP Uptake Kits
Ideal for LNP Screening	✓	✓	✓	
Features Reporter Readout	✓			✓
Custom Cargo Compatible		✓	✓	✓
Customizable LNP Formulation			✓	✓
Hands-On Time Required	+	++	+++	+++
Suggested Use	First choice for pilot studies and novice researchers	Preferred option for custom cargo and maximum ease-of-use	Top choice for preparing LNPs with custom cargo and formulation	Ideal for visualizing cellular uptake with custom LNPs
Available Formats	View Online >	View Online >	View Online >	View Online >

Companion LipidLaunch™ Products

LipidLaunch™ LNP Apparent pK_a Assay Kit (TNS Method)

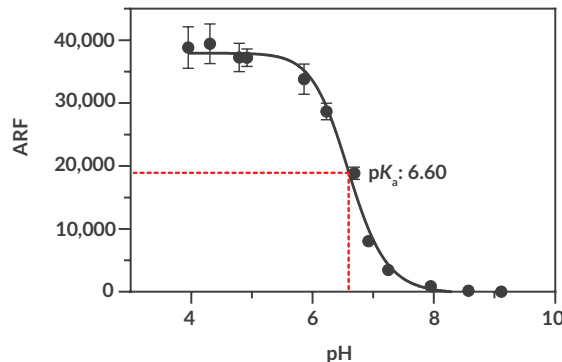
Item No. 702680

A convenient fluorometric method for determining the apparent pK_a of formulated LNPs.

LipidLaunch™ LNP Formulation Buffer

Item No. 400813

An acidic aqueous buffer designed to optimally encapsulate nucleic acid cargo within LNPs.



Simplify LNP Screening & Optimization

LipidLaunch™ Ionizable Lipid LNP Screening Set

Item No. 42832

A set of 12 cationic and ionizable cationic lipids for screening in LNPs.

LipidLaunch™ Helper Lipid Set

Item No. 42831

Includes 1,2-DSPC, cholesterol, and DMG-PEG(2000) for use in LNP formulations.

