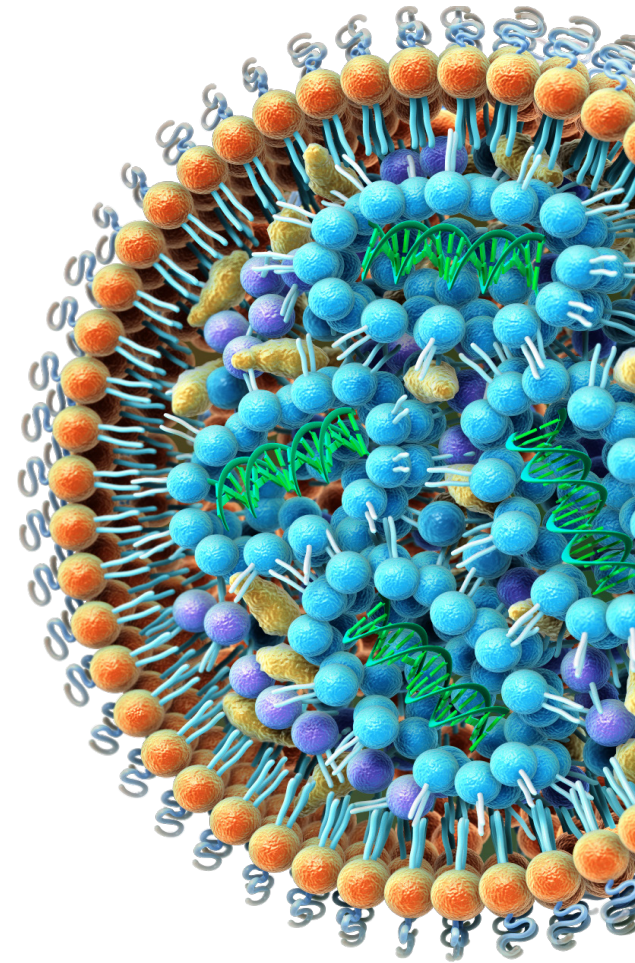


GenVoy-ILM™

Non-viral LNP Delivery
for RNA

For preclinical development of:
gene therapy
cell therapy
vaccines

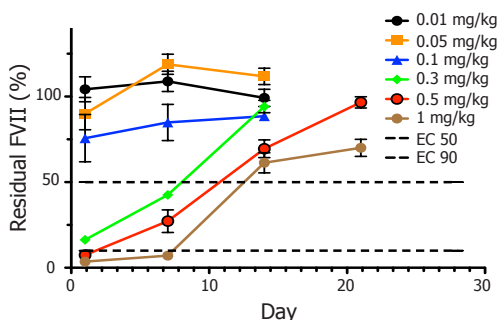
With applications in oncology, rare diseases
and infectious diseases.



GenVoy-ILM

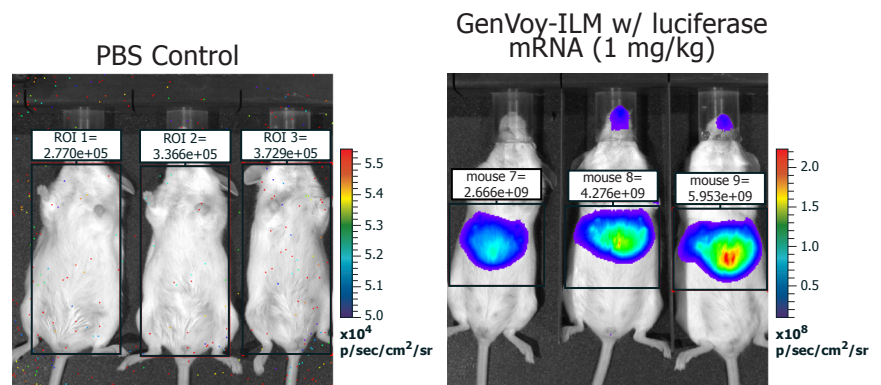
is an exclusive ionizable lipid mix for rapid, easy production of RNA-Lipid Nanoparticles using the NanoAssemblr[®] platform. It can be used to:

**Deliver siRNA for sustained gene
knockdown**



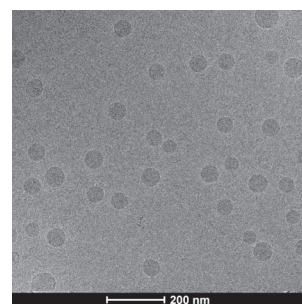
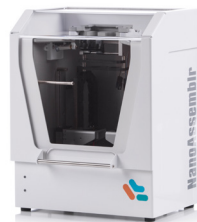
A single injection of GenVoy-ILM Factor VII siRNA-LNP was administered to mice via the tail vein at the RNA doses indicated and plasma levels of Factor VII protein were measured up to 21 days post-administration.

Deliver mRNA for gene expression



A single injection of GenVoy-ILM Luciferase mRNA-LNP was administered to mice via the tail vein at an RNA dose of 1 mg/mL. Luciferase expression was measured 6-hours post-mRNA-LNP administration.

Both The Chemistry And The Process Affect The Outcome



Your RNA + **GenVoy-ILM™** + **NanoAssemblr Process** = **Homogeneous LNPs**

LNPs made with the NanoAssemblr platform exhibit a unique homogeneous core structure with exceptionally consistent size within and between batches, which has been shown to be more potent than particles made by other methods. For more details, visit:

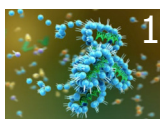
precisionnanosystems.com/lnp-performance

Use GenVoy-ILM for:

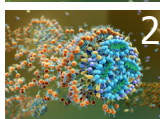
- Gene silencing
- Gene expression
- Gene editing
- Gene modulation

Use GenVoy-ILM to encapsulate and deliver RNA:

- siRNA
- miRNA
- tRNA
- gRNA
- mRNA



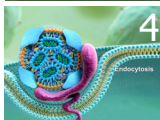
1 GenVoy-ILM contains an ionizable cationic lipid, which at low pH mediates efficient encapsulation of the anionic RNA in a lipid core



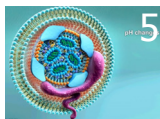
2 The RNA-lipid core is surrounded by helper lipids, cholesterol and stabilizers to form the RNA-LNP



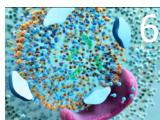
3 Once formed, RNA-LNP are neutral at physiological pH which eliminates a main source of toxicity present in other materials used in RNA delivery systems



4 RNA-LNP mimic low density lipoproteins (LDL) and are then taken up by most cell types through receptor-mediated endocytosis



5 Once in the endosome, ionizable lipids in RNA-LNP respond to low pH and become cationic



6 The cationic lipids in the RNA-LNP interact with anionic lipids in the endosome to disrupt the endosomal membrane and release the RNA into the cytoplasm

Learn More: precisionnanosystems.com/genvoy-ilm

Contact
info@precision-nano.com
 1-888-618-0031
www.precisionnanosystems.com

Headquarters:
 50 - 655 West Kent Ave. N.,
 Vancouver, BC, V6P 6T7
 Canada

Global Sales:
 395 Oyster Point Boulevard, Suite 145
 South San Francisco, CA 94080
 USA

Ordering Information

GenVoy-ILM	2 mL	NWW0041
GenVoy-ILM	5 mL	NWW0042
GenVoy-ILM w/ dye (644/665 nm ex/em)	2 mL	NWW0039
GenVoy-ILM w/ dye (644/665 nm ex/em)	5 mL	NWW0040
PNI Formulation Buffer	20 mL	NWW0043
NanoAssemblr Benchtop Instrument with 50 Cartridges	Instrument Bundle	NIT0055

* Instrument and cartridges also available separately

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