

Description

Ready-to-use stabilized **NanOZ LNP-siRNA**

Refer to NanOZ LNP-siRNA datasheet for more information.

Protocol

In vitro Analyses:

1. Bring **NanOZ LNP-siRNA** to room temperature and mix it by gently pipetting up and down
2. Add **NanOZ LNP-siRNA** to cells in culture according to the table below (**Table 1**)
3. Evaluate transgene expression 72H after.

	96-well plate	24-well plate
<i>NanOZ-LNP</i>	0.2-25 μ L	1-12 μ L

Table 1: Recommended volumes for 96- and 24-well plates.

In vivo Administration:

NanOZ LNP-siRNA are suitable delivery systems for the (IM) intramuscular, (SC) subcutaneous, (IV) intravenous* or (IP) intraperitoneal administration routes.

Refer to table 2 below for the recommended volumes of injection depending on the administration site and the animal model.

Species	IV* (mL/kg)	IP (mL/kg)	SC (mL/kg)	IM Total vol (mL)
<i>Mice, rats</i>	5-20	5-20	5-20 (2-3 sites)	0.05-0.1 2 sites/day
<i>Guinea pigs, hamsters</i>	1-5	10-20	5-10 (2-3 sites)	0.1-0.2 2 sites/day
<i>Rabbits</i>	1-10	3-10	2.5-10 (2-3 sites)	0.25-0.5 2 sites/day
<i>Pigs</i>	1-10	1-20	1-3 (2-3) sites	0.25-0.5 (max 5 mL)

Table 2: Recommended dose volumes for common laboratory animals (Adapted from IQ CONSORTIUM, IQ3Rs, 2018, 1, 1-4.).

***Important note for I.V.:** According to *in vivo* data, our alternative formulations based on other ionizable lipids are better candidates for intravenous injections than off the shelf LNPs. Please contact us for optimized solutions.

Use, handling and storage

For Research Use Only. Not for use in humans. Not for use in diagnostic or therapeutic purposes.

Long term storage (6 months): -80°C.

Short term storage (2 months): +4°

We recommend minimizing freeze-thaw cycles to preserve LNPs integrity.

Related Products

Ref	Description
#LNP10250SIRNA1	LNP-siRNA GFP
#LNP10250SIRNA2	LNP-siRNA GAPDH
#LNP10250SIRNA3	LNP-siRNA scrambled Cy5 labelled

Custom LNPs & mRNAs are also available now!

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