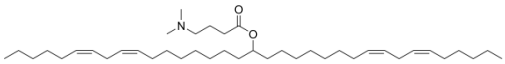
Product Data Sheet

Product Name: nor-MC3
Cat. No.: GC81662

Chemical Properties

Cas. No.	2870681-06-2		
Formula	$C_{41}H_{75}NO_2$	M.Wt	614.04
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

nor-MC3 is an MC3 -type ionizable lipid with C 17 unsaturated chains, formulated in lipid nanoparticles for nucleic acid (mRNA and siRNA) delivery and supports in vitro and in vivo transfection [1].

In Vivo, Nor-MC3-containing lipid nanoparticles (1 mg/kg mRNA; i.v.; single injection) deliver mRNA to mouse liver and spleen with high efficacy[1].

In Vitro, nor-MC3-based mRNA LNPs (0.03-10 μg/mL mRNA; 24 h) exhibit superior in vitro

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transfection efficiency in HuH7 cells compared to MC3-based LNPs, with enhanced activity at 10 μg/mL mRNA[1]. nor-MC3-based siRNA LNPs (0.03-1 μg/mL siRNA) exhibit comparable in vitro knockdown efficiency in stably luciferase-expressing 22Rv1 cells to MC3-based LNPs, with enhanced activity at 0.5 μg/mL siRNA and a similar EC50 value of 0.1644 μg/mL siRNA[1].

References:

[1]. Ciufolini M A, et al. MC3-TYPE LIPIDS AND USE THEREOF IN THE PREPARATION OF LIPID NANOPARTICLES. WO/2022/246571. WIPO. 01.12.2022.

Caution: Product has not been fully validated for medical applications. For research use only.

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