

Product Data Sheet

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

Chemical Properties

Cas. No. 2870681-06-2

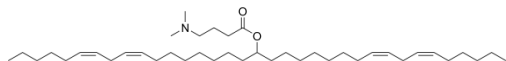
Formula $C_{41}H_{75}NO_2$ M.Wt 614.04

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

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

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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.

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