

Product Data Sheet

Product Name: Lipid C-1
Cat. No.: GC91575

Chemical Properties

Cas. No. 2244715-87-3

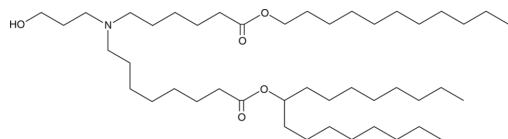
Formula $C_{45}H_{89}NO_5$ M.Wt 724.2

Solubility Chloroform: Soluble, Ethanol: Soluble, Methanol: Soluble
Storage -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

Lipid C-1 is an ionizable cationic amino lipid and a derivative of SM-102.^[1] It has been used in the formation of lipid nanoparticles (LNPs) for the delivery of mRNA *in vitro*. LNPs containing lipid C-1 and encapsulating an mRNA reporter induce higher luciferase expression in Calu-3 cells than SM-102.

References:

[1]. Lewis, M.M., Soto, M.R., Maier, E.Y., et al. Optimization of ionizable lipids for aerosolizable mRNA lipid nanoparticles. *Bioeng. Transl. Med.* 8(6):e10580(2023).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA