

Product Data Sheet

Product Name: YK-009
Cat. No.: GC90772

Chemical Properties

Cas. No. 2761458-86-8

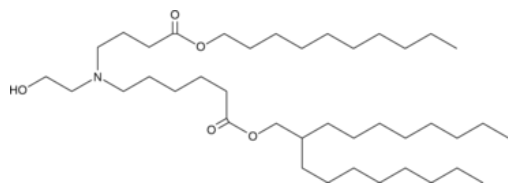
Formula $C_{40}H_{79}NO_5$ M.Wt 654.1

Solubility Ethanol: 5 mg/ml 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

YK-009 is an ionizable cationic lipid ($pK_a = 6.512$) that has been used in combination with other lipids in the formation of lipid nanoparticles (LNPs).¹ Administration of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) Omicron variant mRNA in YK-009-containing LNPs induces the production of IgG that binds to the SARS-CoV-2 receptor-binding domain (RBD) in mice, with a boost in IgG titers 10 days after a second dose.

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

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