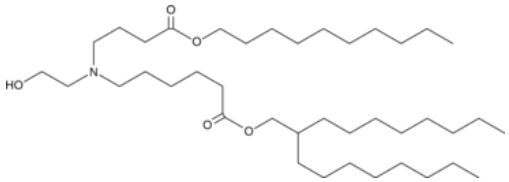
# Product Data Sheet

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 (p*K*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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