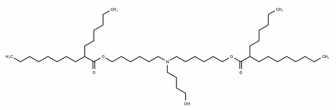
# ALC-0315

Cat. No.: **SN-M-LM9277**

## Chemical Properties

| | |
|---|---|
| **Product Name** | ALC-0315 |
| **Full Name** | 6-[6-(2-hexyldecanoyloxy)hexyl-(4-hydroxybutyl)amino]hexyl 2-hexyldecanoate |
| **Cat. No.** | SN-M-LM9277 |
| **CAS No.** | 2036272-55-4 |
| **Molecular Formula** | C48H95NO5 |
| **Molecular Weight** | 766.27 |
| **Appearance** | Viscous |
| **Storage** | Keep away from direct sunlight, |
| **Shipping** | Shipping with blue ice/Shipping at ambient temperature. |
| **Solubility** | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (5.22 mM), Sonication is recommended. \| DMSO: 100 mg/mL (130.5 mM), Sonication is recommended. |
| **Purity** | 98+% |

## Structure



## Biological Description

ALC-0315 is an ionizable cationic lipid that serves as a core component of lipid nanoparticle (LNP) delivery systems for mRNA vaccines, responsible for efficiently encapsulating, protecting, and delivering nucleic acids into cells. Lipid nanoparticles have already been used in research on mRNA (COVID-19) vaccines.

## Related Products / Keywords

- ALC-0315
- ALC0315
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This product is a research reagent and must not be used for clinical validation or human therapeutic use.