

Certificate of Analysis

DSPE-NHS

Cat. No.: HY-W441011 CAS No.: 1383932-86-2 Batch No.: 291674

Chemical Name: 8,10,14-Trioxa-5-aza-9-phosphadotriacontanoic acid, 9-hydroxy-4,15-dioxo-12-[(1-oxooctadecyl

)oxy]-, 2,5-dioxo-1-pyrrolidinyl ester, 9-oxide, (12R)-

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: $C_{49}H_{89}N_2O_{13}P$

Molecular Weight: 945.21

-20°C, sealed storage, away from moisture and light Storage:

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and

Chemical Structure:

ANALYTICAL DATA

Appearance: White to off-white (Solid) ¹H NMR Spectrum: Consistent with structure

Purity (NMR): ≥90.0%

Conclusion: The product has been tested and complies with the given specifications.

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

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