## Certificate of Analysis

CL4H6

| Cat. No.: | HY-139305 |  |  |
| :---: | :---: | :---: | :---: |
| CAS No.: | 2256087-35-9 |  |  |
| Batch No.: | 113318 |  |  |
| Chemical Name: | 9-Octadecenoic acid (9Z)-, 1,1'-[7-[4-(dipropylamino)butyl]-7-hydroxy-1,13-tridecanediyl] ester |  |  |
| PHYSICAL AND CHEMICAL PROPERTIES |  |  |  |
| Molecular Formula: | $\mathrm{C}_{59} \mathrm{H}_{113} \mathrm{NO}_{5}$ |  |  |
| Molecular Weight: | 916.53 |  |  |
| Storage: | Pure form | $-20^{\circ} \mathrm{C}$ | 3 years |
|  |  | $4^{\circ} \mathrm{C}$ | 2 years |
|  | In solvent | $-80^{\circ} \mathrm{C}$ | 6 months |
|  |  | $-20^{\circ} \mathrm{C}$ | 1 month |

Chemical Structure:


## ANALYTICAL DATA

| Appearance: | Colorless to light yellow (Viscous Liquid) |
| :--- | :--- |
| ${ }^{1}$ H NMR Spectrum: | Consistent with structure |
| MS: | Consistent with structure |
| Purity (NMR): | $\geq 95.0 \%$ |
| Conclusion: | The product has been tested and complies with the given specifications. |

