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## Product Data Sheet

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Product Name: CLinDMA  
Cat. No.: GC67971

### Chemical Properties

Cas. No. 908860-82-2

Formula C<sub>54</sub>H<sub>97</sub>NO<sub>3</sub>

M.Wt 808.35

Solubility DMSO : 140 mg/mL (173.19 mM; Need ultrasonic)

Storage 4°C, away from moisture and light

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

CLinDMA, a cationic lipid, can cause inflammatory response. CLinDMA can be used for the synthesis LNP201. LNP201 is a liposome assembly for systemic delivery of siRNA<sup>[1]</sup>.

LNP201 causes sustained silencing of the murine *Ssb* gene in the mouse liver after single or multiple doses through an RNAi mechanism. LNP201 causes an acute inflammatory response, inducing expression of numerous genes involved in innate immunity as well as mitogen-activated protein kinase (MAPK) phosphorylation in tissues<sup>[1]</sup>.

[1]. Abrams MT, et al. Evaluation of efficacy, biodistribution, and inflammation for a potent siRNA nanoparticle: effect of dexamethasone co-treatment. *Mol Ther.* 2010;18(1):171-180.

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

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