

ALC-0159

## Chemical Properties

CAS No. : 1849616-42-7

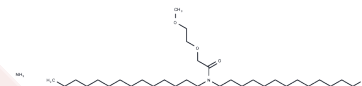
Formula: (C<sub>2</sub>H<sub>4</sub>O)<sub>n</sub>C<sub>31</sub>H<sub>63</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 542.934

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	ALC-0159 is a polyethylene glycol (PEG) lipid conjugate that could be used as a vaccine excipient[1].
Targets(IC50)	Others,Liposome
In vitro	ALC-0159 promotes nanoparticle stabilization by a steric mechanism through its poly (ethylene glycol) (PEG) moiety[1].

## Solubility Information

Solubility	DMSO: 117.50 mg/mL (216.42 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (18.42 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.00 mg/mL (3.68 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.8419 mL	9.2093 mL	18.4186 mL
5 mM	0.3684 mL	1.8419 mL	3.6837 mL
10 mM	0.1842 mL	0.9209 mL	1.8419 mL
50 mM	0.0368 mL	0.1842 mL	0.3684 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

S Moein Moghimi, et al. Allergic Reactions and Anaphylaxis to LNP-Based COVID-19 Vaccines. Mol Ther. 2021 Mar 3;29(3):898-900.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481