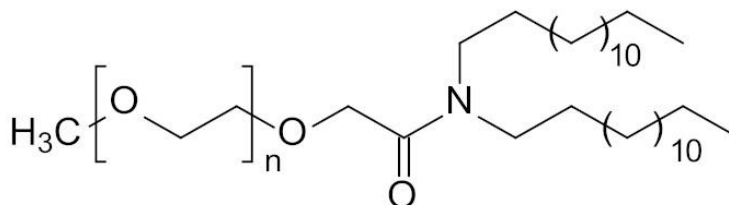


## CERTIFICATE OF ANALYSIS

### ALC-0159 Cat

#: orb757559

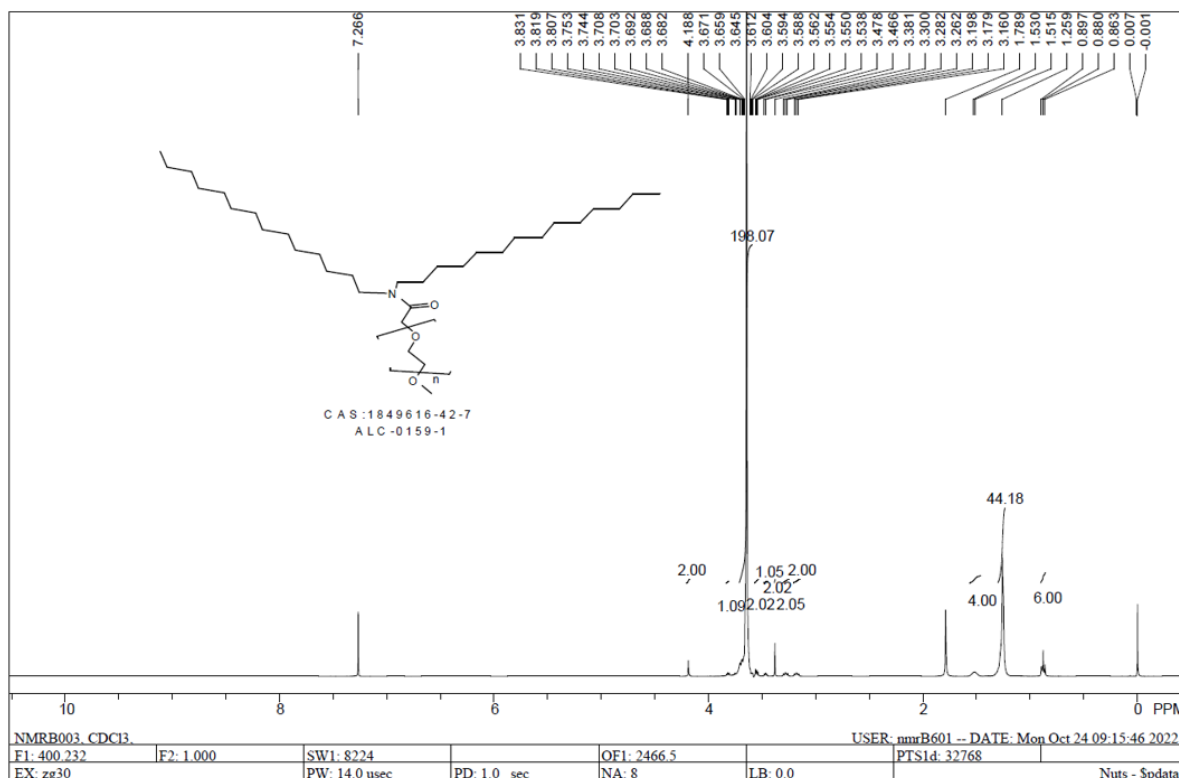


#### Description:

ALC-0159 is a PEG/lipid conjugate (i.e. PEGylated lipid), specifically, it is the N,N-dimyristylamide of 2-hydroxyacetic acid, O-pegylated to a PEG chain mass of about 2 kilodaltons (corresponding to about 45-46 ethylene oxide units per molecule of N,N-dimyristyl hydroxyacetamide).

#### Chemical Information

Catalog	orb757559
Lot	Y6675
Purity of current batch:	>99%
Molecular Formula	(C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>31</sub> H <sub>63</sub> NO <sub>2</sub>
Molecular Weight (MW)	2400±10%
CAS No.	1849616-42-7
Appearance	White powder
Storage	Store at -20°C (desiccating conditions).



### HNMR Analysis of orb757559

#### Handling:

Providing storage is as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 24 months.

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.