

Supplementary information for

Lipid carriers for mRNA delivery

Wanting Zhang^a, Yuxin Jiang^a, Yonglong He^a, Hamza Boucetta^a, Jun Wu^{b,*},

Zhongjian Chen^{c,*}, Wei He^{c,a,*}

^aDepartment of Pharmaceutics, School of Pharmacy, China Pharmaceutical University, Nanjing 211198, China

^bDepartment of Geriatric Cardiology, Jiangsu Provincial Key Laboratory of Geriatrics, the First Affiliated Hospital of Nanjing Medical University, Nanjing 210029, China

^cShanghai Skin Disease Hospital, Tongji University School of Medicine, Shanghai 200443, China

Received 14 August 2022; received in revised form 26 October 2022; accepted 3

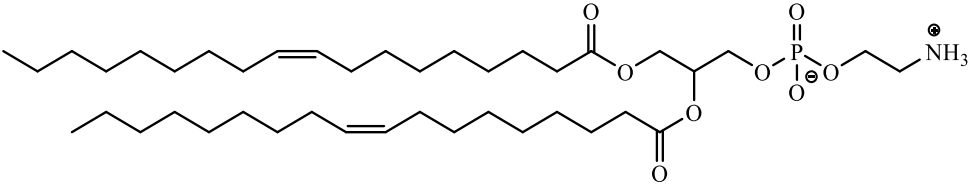
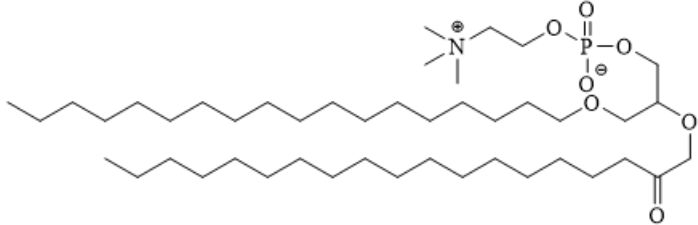
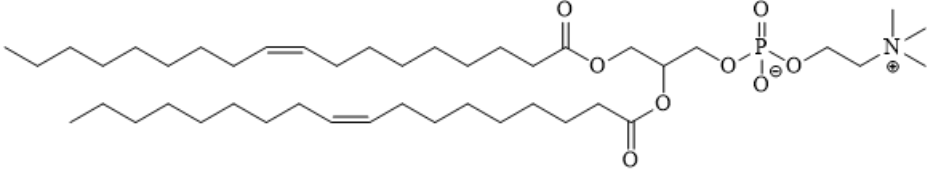
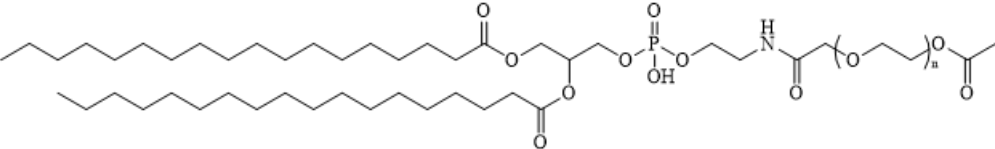
November 2022

*Corresponding authors. Tel./fax: +86 25 86185328 (Wei He).

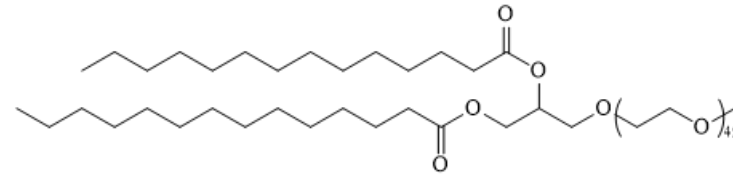
E-mail addresses: wujun9989@njum.edu.cn (Jun Wu), jian818@163.com

(Zhongjian Chen), weihe@cpu.edu.cn (Wei He).

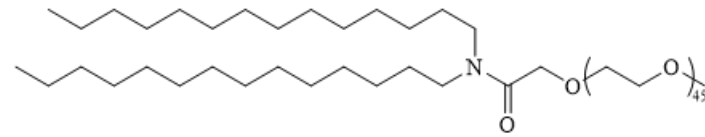
Table S1 Commonly used lipid materials for mRNA delivery.

Classification	Name	Structure
Neutral	DOPE	
	DSPC	
	DOPC	
	DSPE-PEG	

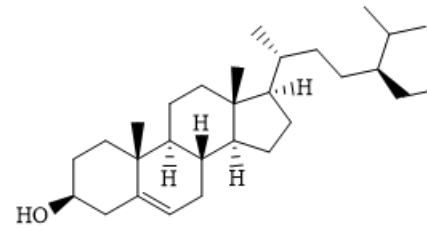
PEG2000-DMG



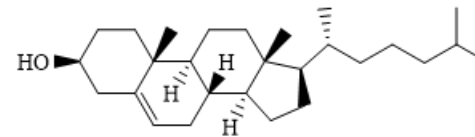
ALC-0159



C24 alkyl phytosterol

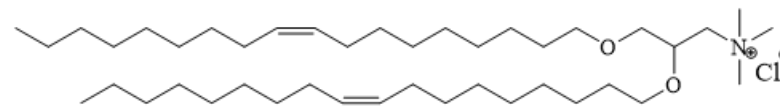


Chol

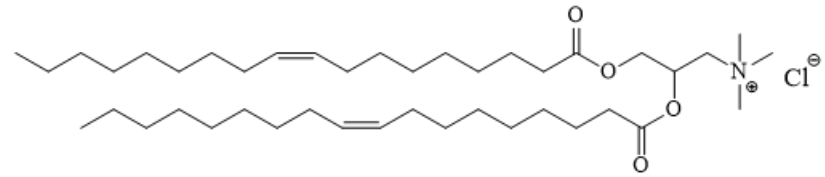


Cationic

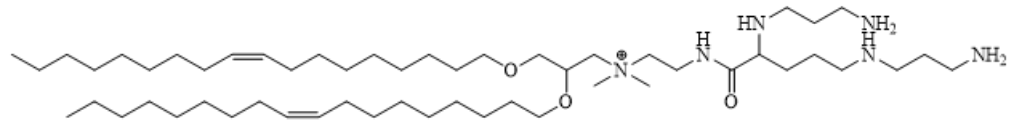
DOTMA



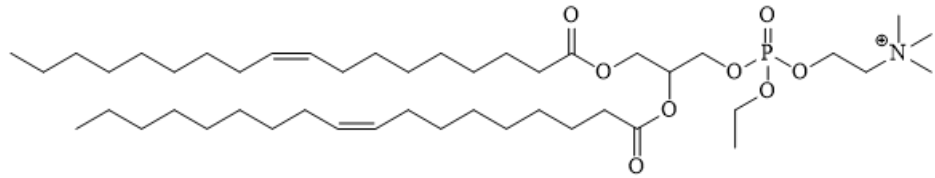
DOTAP



DOSPA

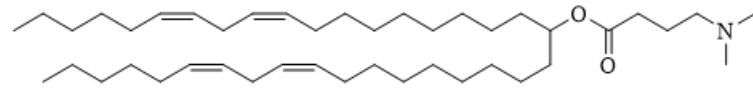


EPC

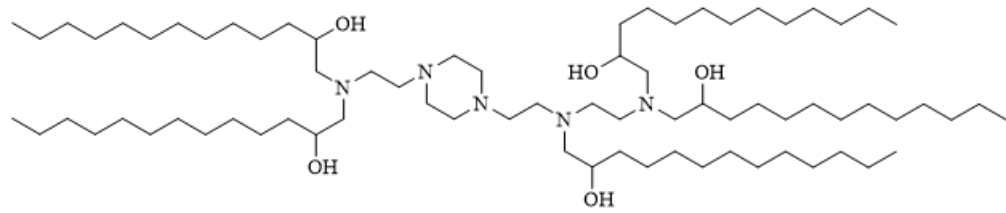


Ionizable

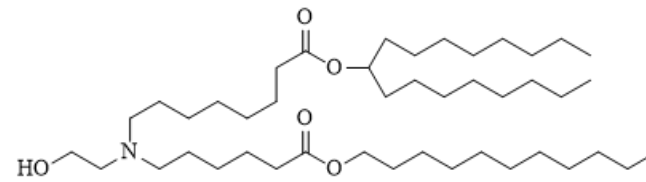
Dlin-MC3-DMA



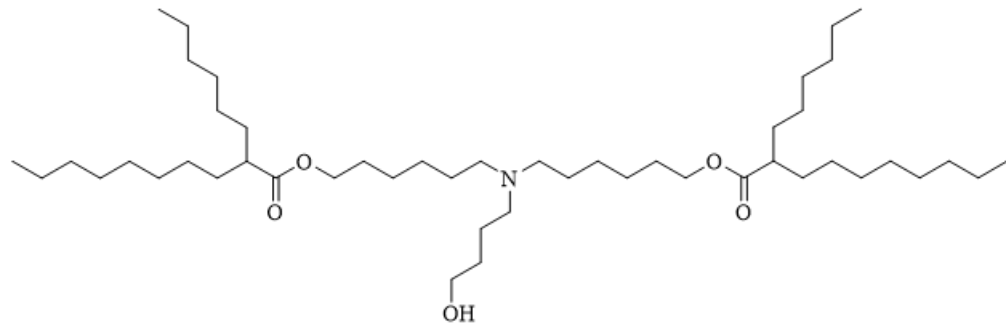
C12-200



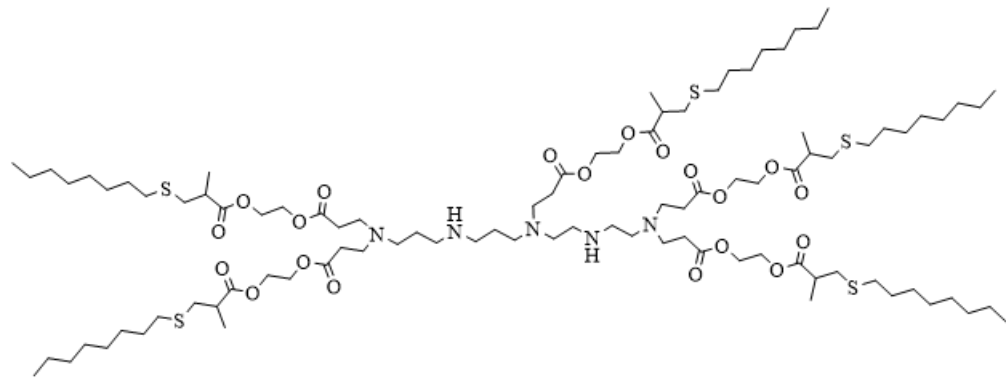
SM-102



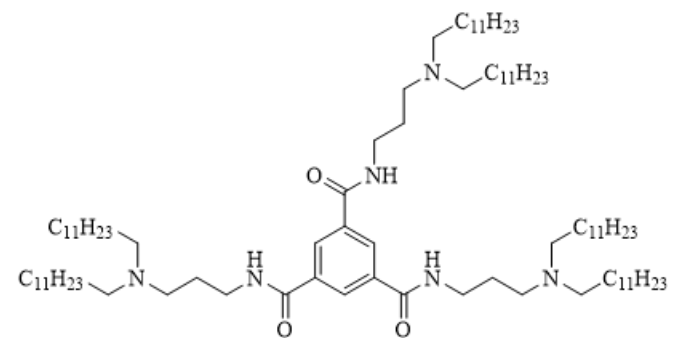
ALC-0315



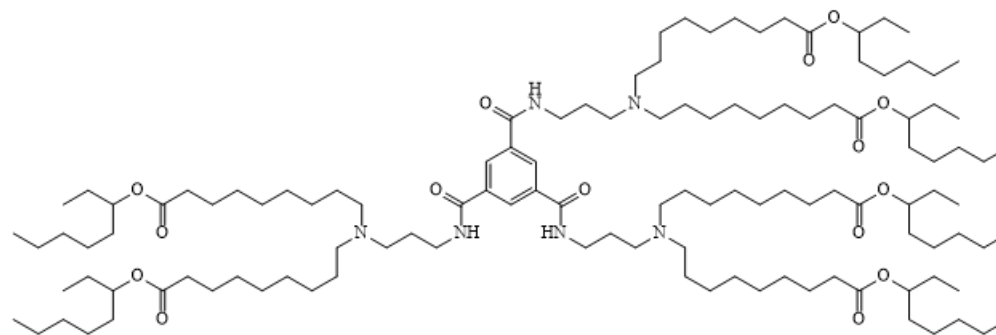
5A2-SC8



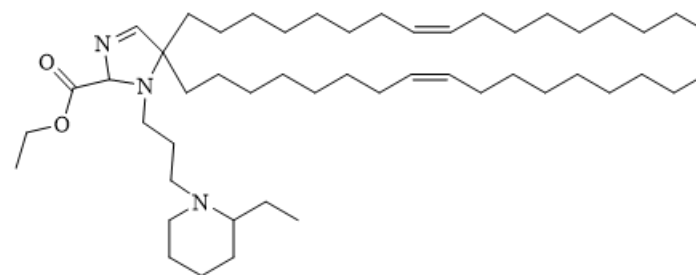
TT3



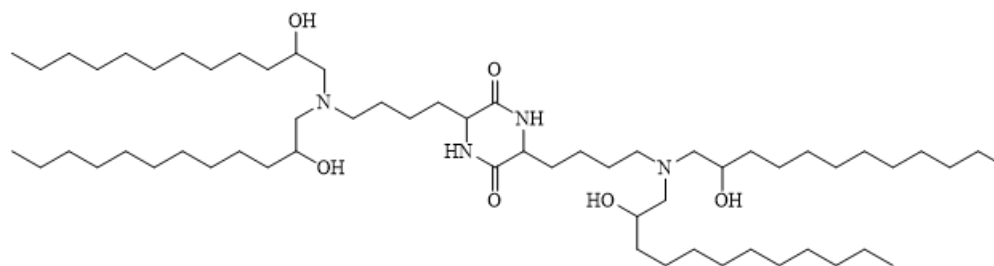
FTT5



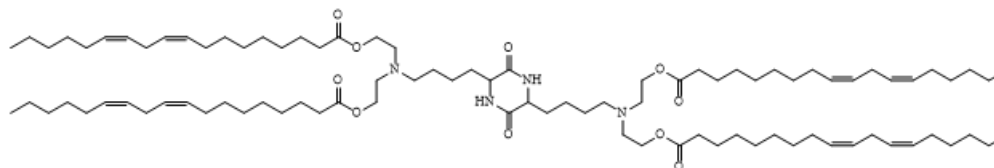
A18-Iso5-2DC18



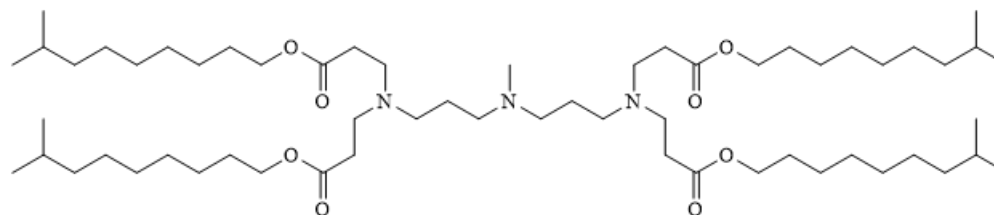
cKK-E12



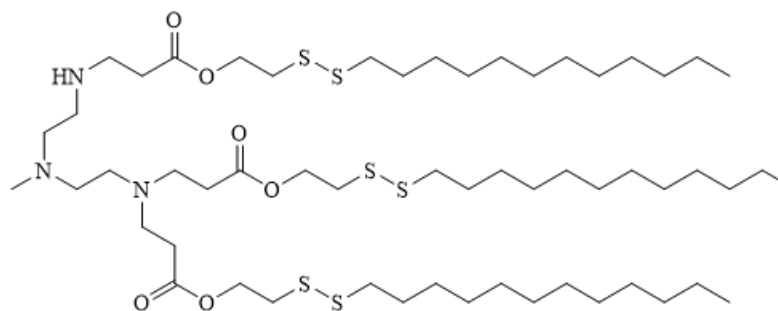
OF-Deg-Lin



306O_{i10}

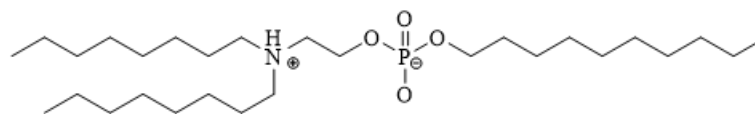


BAME-O16B

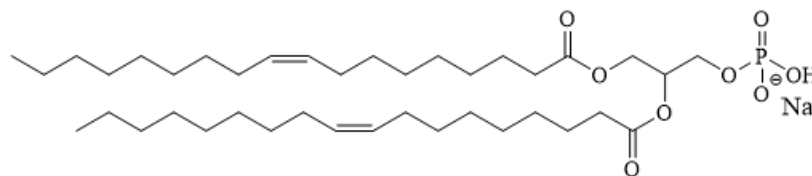


Anionic

9A1P9



18PA



DOPS

