16:0 PEG350 PE

Cat. No.: HY-144012A

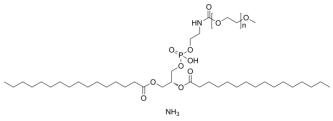
CAS No.: 474922-84-4

Molecular Formula: $(C_2H_4O)_nC_{39}H_{76}NO_{10}P.H_3N$

Target: Liposome

Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

16:0 PEG350 PE is a PEG lipid functional end group used in the synthesis of liposomes (LPs) for the design of conjugated polymer nanoparticles. Through biotin modification and carboxyl terminus, lipid nanoparticles (LNPs) further coupling with other biomolecules can be achieved. Functionalized nanoparticles can be used for targeted labeling of specific cellular proteins. With streptavidin as a linker, biotinylated PEG lipid-conjugated polymer nanoparticles are able to bind to biotinylated antibodies on cell surface receptors, yielding the utility of fluorescence-based imaging and sensing.

REFERENCES

[1]. Xiao H, et al. Regulation of microglia polarization via mannose receptor-mediated delivery of siRNA by ligand-functionalized DoGo LNP. RSC Adv. 2021 Oct 4;11(52):32549-32558.

[2]. Sommonte F, et al. In-House Innovative "Diamond Shaped" 3D Printed Microfluidic Devices for Lysozyme-Loaded Liposomes. Pharmaceutics. 2022 Nov 16;14(11):2484.

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