18:0 mPEG750 PE ammonium

Cat. No.: HY-144013C

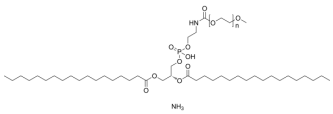
CAS No.: 474922-77-5

Molecular Formula: $(C_2H_4O)_nC_{43}H_{84}NO_{10}P.H_3N$

Target: Biochemical Assay Reagents; Liposome

Pathway: Others; Metabolic Enzyme/Protease

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



BIOLOGICAL ACTIVITY

Description

18:0 mPEG750 PE (ammonium) is a PEG lipid functional end group used in the synthesis of liposomes (LPs) for the design of conjugated polymeric 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]. Anatoly N Lukyanov, et al. Increased accumulation of PEG-PE micelles in the area of experimental myocardial infarction in rabbits. J Control Release. 2004 Jan 8;94(1):187-93.

[2]. Cooper A, et al. Osmotic Pressure Enables High-Yield Assembly of Giant Vesicles in Solutions of Physiological Ionic Strengths. Langmuir. 2023 Apr 18;39(15):5579-5590.

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