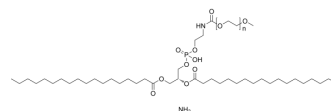


## 18:0 mPEG1000 PE ammonium

Cat. No.:	HY-144013D
CAS No.:	474922-77-5
Molecular Formula:	$(C_2H_4O)_n C_{43}H_{84}NO_{10}P.H_3N$
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

18:0 mPEG1000 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]. 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA