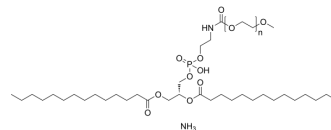


## 14:0 PEG3000 PE

Cat. No.:	HY-155928
CAS No.:	474922-82-2
Molecular Formula:	$(C_2H_4O)_n C_{35}H_{68}NO_{10}P.NH_3$
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

14:0 PEG3000 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]. Kandel PK, et al. Incorporating functionalized polyethylene glycol lipids into reprecipitated conjugated polymer nanoparticles for bioconjugation and targeted labeling of cells. *Nanoscale*. 2011 Mar;3(3):1037-45.

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

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