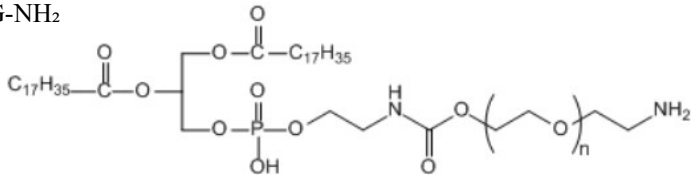
FT-1A1222

DSPE-PEG-AMINE

Heterobifunctional PEGylation reagent

Product Description

Name :	**DSPE-PEGx-AMINE, MW: 2000 Da** DSPE-PEG-Amine, DSPE-PEG-NH_2
Catalog Number :	1A1222, 1 g
CAS:	474922-26-4
Purity:	≥95%
Applications:	- Targeted drug delivery - Nanotechnology and new materials research - Cell culture - Ligand and polypeptide synthesis support - Graft polymer compounds - PEG-modified functional coatings - Bioconjugation with antibodies, aptamers, proteins, and peptides - Lipid nanoparticle (LNP) formulation development
Storage:	Store at -5°C. Keep dry and avoid exposure to sunlight.



Description

DSPE-PEG-NH_2 is a linear heterobifunctional PEGylation reagent composed of a DSPE phospholipid and a terminal amine group. It is widely used in the modification of liposome surfaces with biomolecules containing amine-reactive groups (e.g., NHS esters, thiolates). This reagent enables the self-assembly of PEGylated liposomes or micelles and provides an accessible amine group for bioconjugation.

References

- Kang, S. et al. (2024). Engineered plant-derived extracellular vesicles for targeted regulation and treatment of colitis-associated inflammation. Theranostics, 14(14), 5643-5661. https://doi.org/10.7150/thno.97139.
- Peter F., et al. Degradable and Biocompatible Magnesium Zinc Structures for Nanomedicine: Magnetically Actuated Liposome Microcarriers with Tunable Release. Adv. Funct. Mater. 2024, 34, 2314265. https://doi.org/10.1002/adfm.202314265
- Sela, M. et al., Brain-Targeted Liposomes Loaded with Monoclonal Antibodies Reduce Alpha-Synuclein Aggregation and Improve Behavioral Symptoms in Parkinson's Disease. Adv. Mater. 2023, 35, 2304654. https://doi.org/10.1002/adma.202304654
- Jangid A. et al., Biomaterial-Mediated Exogenous Facile Coating of Natural Killer Cells for Enhancing Anticancer Efficacy toward Hepatocellular Carcinoma, Bioconjugate Chemistry 2023 34 (10), 1789-1801, DOI: 10.1021/acs.bioconjchem.3c00335

Ordering information

Catalog size quantities and prices may be found at http://www.interchim.com.
For any information, please ask : Biosciences / Interchim; Hotline : +33(0)4 70 03 88 55

Order on-line or Contact your local distributor.

Disclaimer : Materials from Uptima are sold **for research use only**, and are not intended for food, drug, household, or cosmetic uses. Uptima is not liable for any damage resulting from handling or contact with this product. T04E