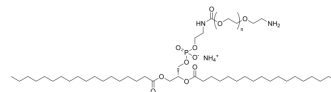


DSPE-PEG-Amine, MW 3400 ammonium

Cat. No.:	HY-155887
CAS No.:	474922-26-4
Molecular Formula:	$(C_2H_4O)_nN_2O_{10}P.NH_3$
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

DSPE-PEG-Amine, MW 3400 (ammonium) is a phosphoethanolamine involved in the synthesis of liposomes for delivery systems. The amino group of DSPE-PEG-Amine, MW 3400 (ammonium) can be converted to aromatic aldehydes by reacting with acetone-protected aromatic hydrazines on the surface of bovine carbonic anhydrase (BCA) molecules. Liposomes form a liposome-BAH-BCA conjugate by forming a bisarylhydrazone (BAH) with the target enzyme molecule. The conjugate catalyzes the hydration of carbon dioxide to bicarbonate.

REFERENCES

[1]. Nagata H, et al. Preparation and Catalytic Properties of Carbonic Anhydrase Conjugated to Liposomes through a Bis-Aryl Hydrazone Bond. ACS Omega. 2023 May 16;8(21):18637-18652.

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

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