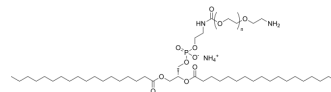


## DSPE-PEG-Amine, MW 1000 ammonium

Cat. No.:	HY-W440823A
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 1000 (ammonium) is a phosphoethanolamine involved in the synthesis of liposomes for delivery systems. The amino group of DSPE-PEG-Amine, MW 1000 (ammonium) can be converted to an aromatic aldehyde, which reacts with an acetone-protected aromatic hydrazine on the surface of the bovine carbonic anhydrase (BCA) molecule. 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.**

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