

Product Data Sheet

Product Name: DSPE-MPEG(2000) (sodium salt)

Cat. No.: GC45442

Chemical Properties

Cas. No. 459428-35-4

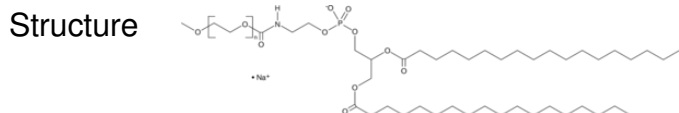
SMILES O=[P](OCCNC(OCCOC)=O)([O-])OCC(COC(CCCCCCCCCCCCCCCCCC)=O)OC(CCCCCCCCCCCCCCCCCC)=O.[Na+]

Formula (C₂H₄O)_nC₄₃H₈₃NO₁₀P.Na M.Wt N/A

Solubility Chloroform: 10 mg/ml, DMF: 2.5mg/mL, DMF:PBS (pH 7.2) (1:1): 0.5mg/mL
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.



Background

DSPE-MPEG(2000) is a PEGylated derivative of 1,2-distearoyl-sn-glycero-3-PE (DSPE;). Formulations containing DSPE-MPEG(2000) have been used in the synthesis of liposomes for the delivery of anticancer and antimalarial agents.^{1,2,3}

References

- Hasan, G.M., Garg, N., Dogra, E., et al. Inhibition of the growth of Plasmodium falciparum in culture by stearylamine-phosphatidylcholine liposomes. J. Parasitol. Res. 120462 (2011).
- Rathore, S.S., and Ghosh, P.C. Effect of surface charge and density of distearylphosphatidylethanolamine-mPEG-2000 (DSPE-mPEG-2000) on the cytotoxicity of liposome-entrapped ricin: Effect of lysosomotropic agents. Int. J. Pharm. 350(1-2), 79-94 (2008).
- Haghiralsadat, F., Amoabediny, G., Helder, M.N., et al. A comprehensive mathematical model of drug release kinetics from nano-liposomes, derived from optimization studies of cationic PEGylated

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

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liposomal doxorubicin formulations for drug-gene delivery. Artif. Cells Nanomed. Biotechnol. 46(1), 169-177 (2018).

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