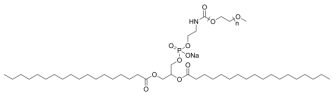
mPEG-DSPE, MW 2000 sodium

Cat. No.: HY-139385A

Target: Parasite; Liposome

Pathway: Anti-infection; Metabolic Enzyme/Protease

Storage: -20°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 12.5 mg/mL (Need ultrasonic)
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (Infinity mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (Infinity mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	mPEG-DSPE, MW 2000 sodium is a phospholipid PEG conjugate, has both hydrophilicity and hydrophobility. mPEG-DSPE, MW 2000 sodium is used in the synthesis of liposomes, increases the hydrophilicity on the surface of liposomes, consequently increasing the longevity of liposomes in the blood circulation for the study of anticancer and antimalarial agents[1][2].
IC_{50} & Target	Plasmodium

REFERENCES

[1]. Rathore SS, et al. 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. 2008;350(1-2):79-94.

[2]. Hasan GM, et al. Inhibition of the Growth of Plasmodium falciparum in Culture by Stearylamine-Phosphatidylcholine Liposomes. J Parasitol Res. 2011;2011:120462.

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

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