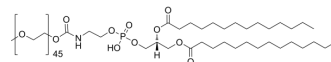


PEG2000-DMPE

Cat. No.:	HY-112768		
Molecular Formula:	C ₃₇ H ₇₂ NO ₁₁ P		
Molecular Weight:	2676.25		
Target:	Liposome		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (37.37 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	0.3737 mL	1.8683 mL	3.7366 mL
				5 mM	0.0747 mL	0.3737 mL	0.7473 mL
				10 mM	0.0374 mL	0.1868 mL	0.3737 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (0.93 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (0.93 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (0.93 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	PEG2000-DMPE can be used to synthesis a LNP. PEG2000-DMPE enhances the entrapment efficiency depending on the increasing portion in the liposome. The optimal formulation for animal study is that DMPC/PEG2000-DMPE/CH=50/5/45 at the weight ratio of drug/lipid=1/20 ^[1] .
-------------	---

REFERENCES

[1]. Han I, et al. Enhanced antitumor activity [correction for activity] of trans(+/-)-1,2-diaminocyclo-hexaneglutamatoplatinum(II) formulated with stealth liposome. Bioorg

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