m-PEG-OH (MW 1000)

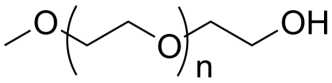
Cat. No.: HY-140696E

CAS No.: 9004-74-4

Target: Liposome

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H_2O : 100 mg/mL (Need ultrasonic) DMSO : 100 mg/mL (Need ultrasonic)
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	m-PEG-OH (MW 1000) can be used as a macroinitiator to participate in the synthesis of amphiphilic block copolymers. Amphiphilic block copolymers can be used to prepare nanoscale micelles to deliver active drugs. Paclitaxel (HY-B0015), a hydrophobic anticancer agent encapsulated in micelles, has stronger cancer-killing activity than free Paclitaxel. And it accumulates preferentially in tumor tissues and has only limited distribution in healthy organs.

REFERENCES

[1]. Lee AL, et al. The use of cholesterol-containing biodegradable block copolymers to exploit hydrophobic interactions for the delivery of anticancer drugs. Biomaterials. 2012 Feb;33(6):1921-8.

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