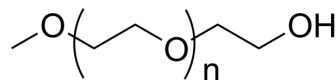


m-PEG-OH (MW 1000)

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 ₂ O : 100 mg/mL (Need ultrasonic) DMSO : 100 mg/mL (Need ultrasonic)
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution 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.
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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.

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

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