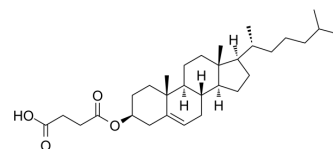


Cholesteryl hemisuccinate

Cat. No.:	HY-W010800
CAS No.:	1510-21-0
Molecular Formula:	C ₃₁ H ₅₀ O ₄
Molecular Weight:	486.73
Target:	Topoisomerase; DNA/RNA Synthesis; Apoptosis; Necroptosis
Pathway:	Cell Cycle/DNA Damage; Apoptosis
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	Ethanol : 25 mg/mL (51.36 mM; Need ultrasonic)					
	DMSO : 10 mg/mL (20.55 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div>Solvent</div> <div>Concentration</div>	Mass	1 mg	5 mg	10 mg
		1 mM		2.0545 mL	10.2726 mL	20.5453 mL
		5 mM		0.4109 mL	2.0545 mL	4.1091 mL
		10 mM		0.2055 mL	1.0273 mL	2.0545 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% EtOH >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (5.14 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Cholesteryl hemisuccinate is a with hepatoprotective an anticancer activity. Cholesteryl hemisuccinate inhibits Acetaminophen (AAP, HY-66005) hepatotoxicity, and prevents AAP-induced hepatic apoptosis and necrosis. Cholesteryl hemisuccinate inhibits DNA polymerase and DNA topoisomerase to inhibit DNA replication and repair and cell division. Thus, Cholesteryl hemisuccinate inhibits tumor growth ^{[1][2]} .
In Vivo	Cholesteryl hemisuccinate (100 mg/kg; ip; single dose before AAP) abrogates histological and biochemical diagnostics of both apoptosis and necrosis induced by AAP (350-500 mg/kg; ip; single dose) in ICR mice (CD-1) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ray SD, et al. Protection of acetaminophen-induced hepatocellular apoptosis and necrosis by cholesteryl hemisuccinate pretreatment. J Pharmacol Exp Ther. 1996 Dec;279(3):1470-83.

[2]. Varshosaz J, et al. Folate synperonic-cholesteryl hemisuccinate polymeric micelles for the targeted delivery of docetaxel in melanoma. Biomed Res Int. 2015;2015:746093.

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

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