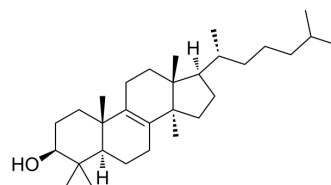


Dihydrolanosterol

Cat. No.:	HY-122410
CAS No.:	79-62-9
Molecular Formula:	C ₃₀ H ₅₂ O
Molecular Weight:	428.73
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	Ethanol : 12.5 mg/mL (29.16 mM); ultrasonic and warming and heat to 60°C					
	DMSO : < 1 mg/mL (insoluble or slightly soluble)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	2.3325 mL	11.6624 mL	23.3247 mL
			5 mM	0.4665 mL	2.3325 mL	4.6649 mL
10 mM			0.2332 mL	1.1662 mL	2.3325 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (2.92 mM); Clear solution					
	2. Add each solvent one by one: 10% EtOH >> 90% corn oil Solubility: ≥ 1.25 mg/mL (2.92 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Dihydrolanosterol is a substrate of CYP51 and a cholesterol biosynthesis inhibitor. ^[1]
IC ₅₀ & Target	CYP51

REFERENCES

[1]. Lepesheva GI, Waterman MR. Sterol 14α-demethylase cytochrome P450 (CYP51), a P450 in all biological kingdoms. *Biochim Biophys Acta*. 2007;1770(3):467-477.

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

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