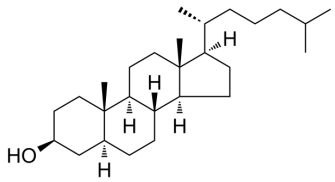
5α-Cholestan-3β-ol

Cat. No.:	HY-107819
CAS No.:	80-97-7
Molecular Formula:	$C_{27}H_{48}O$
Molecular Weight:	388.67
Target:	Endogenous Metabolite
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 : 10 mg/mL (25.73 mM; ultrasonic and warming and heat to 60°C)
H_2O : < 0.1 mg/mL (insoluble)
DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	2.5729 mL	12.8644 mL	25.7288 mL
5 mM	0.5146 mL	2.5729 mL	5.1458 mL
10 mM	0.2573 mL	1.2864 mL	2.5729 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

5α-Cholestan-3β-ol is a derivitized steroid compound.

IC_{50} & Target

Human Endogenous Metabolite

In Vitro

5α-Cholestan-3β-ol is derived from cholesterol by the action of intestinal microorganisms. It is known to induce the formation of gall stones in rabbits in the presence of sodium ions. 5α-Cholestan-3β-ol is used as a standard in lipid analysis using HPLC.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. M. T. Ravi Subbiah, et al. 5α-cholestan-3β-ol: High concentration in testis of white carneau pigeon. Lipids.1971 Jul, 6(7):517–519.

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

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