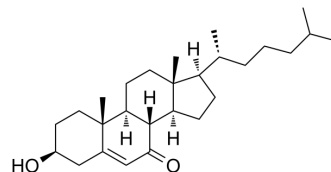


## 7-Ketocholesterol

Cat. No.:	HY-113342
CAS No.:	566-28-9
Molecular Formula:	C <sub>27</sub> H <sub>44</sub> O <sub>2</sub>
Molecular Weight:	400.64
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 6.25 mg/mL (15.60 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.4960 mL	12.4800 mL	24.9601 mL
	5 mM		0.4992 mL	2.4960 mL	4.9920 mL
	10 mM		0.2496 mL	1.2480 mL	2.4960 mL

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

### BIOLOGICAL ACTIVITY

#### Description

7-Ketocholesterol, toxic oxysterol, inhibits the rate-limiting step in bile acid biosynthesis cholesterol 7 alpha-hydroxylase, as well as strongly inhibiting HMG-CoA reductase (the rate-limiting enzyme in cholesterol biosynthesis). 7-Ketocholesterol induces cell apoptosis<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

### REFERENCES

- [1]. M A Lyons, et al. 7-Ketocholesterol. Int J Biochem Cell Biol. Mar-Apr 1999;31(3-4):369-75.
- [2]. Amelia Anderson, et al. 7-Ketocholesterol in disease and aging. Redox Biol. 2020 Jan;29:101380.

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

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