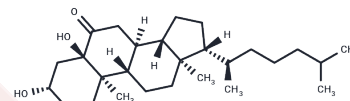


5 $\alpha$ -Hydroxy-6-keto cholesterol

## Chemical Properties

CAS No. :	13027-33-3
Formula:	C <sub>27</sub> H <sub>46</sub> O <sub>3</sub>
Molecular Weight:	418.66
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	5 $\alpha$ -Hydroxy-6-keto cholesterol is a $\beta$ -epoxide metabolite and cholesterol derivative produced in human bronchial epithelial cells (16-HBE) exposed to ozone. It inhibits cholesterol synthesis (IC <sub>50</sub> =350 nM) and exhibits cytotoxicity.
Targets(IC <sub>50</sub> )	Endogenous Metabolite
In vitro	5 $\alpha$ -Hydroxy-6-keto cholesterol (0.01, 0.1, 1, and 10 $\mu$ M) exhibits cytotoxicity to 16-HBE cells [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3886 mL	11.9429 mL	23.8857 mL
5 mM	0.4777 mL	2.3886 mL	4.7771 mL
10 mM	0.2389 mL	1.1943 mL	2.3886 mL
50 mM	0.0478 mL	0.2389 mL	0.4777 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Yamaguchi M, et al. 3 beta,5 alpha-Dihydroxycholestan-6-one exists in human blood. *Biol Pharm Bull.* 1997 Sep; 20(9):1044-6.

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Melissa K Pulfer, et al. Formation of biologically active oxysterols during ozonolysis of cholesterol present in lung surfactant. *J Biol Chem.* 2004 Jun 18;279(25):26331-8.

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