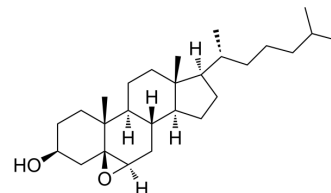


Cholesterol 5beta,6beta-epoxide

Cat. No.:	HY-130502		
CAS No.:	4025-59-6		
Molecular Formula:	C ₂₇ H ₄₆ O ₂		
Molecular Weight:	402.65		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
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 : 20 mg/mL (49.67 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.4835 mL	12.4177 mL	24.8355 mL
	5 mM		0.4967 mL	2.4835 mL	4.9671 mL
	10 mM		0.2484 mL	1.2418 mL	2.4835 mL

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

BIOLOGICAL ACTIVITY

Description

Cholesterol 5beta,6beta-epoxide is an oxidative metabolite of cholesterol formed by free-radical and non-radical oxidation of cholesterol at the 5,6 double bond. Induces lactate dehydrogenase (LDH) release and apoptosis in macrophage-differentiated U937 cells. Cholesterol 5beta,6beta-epoxide has been found in human fatty streaks and advanced atherosclerotic lesions, but not in normal aortic tissue^{[1][2][3]}.

REFERENCES

- [1]. Pulfer M K, et al. Formation of biologically active oxysterols during ozonolysis of cholesterol present in lung surfactant[J]. Journal of Biological Chemistry, 2004, 279(25): 26331-26338.
- [2]. Aringer L, et al. Formation and metabolism in vitro of 5, 6-epoxides of cholesterol and ̢-sitosterol[J]. Journal of Lipid Research, 1974, 15(4): 389-398.
- [3]. Garcia-Cruset S, et al. Oxysterol profiles of normal human arteries, fatty streaks and advanced lesions. Free Radic Res. 2001 Jul;35(1):31-41.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA