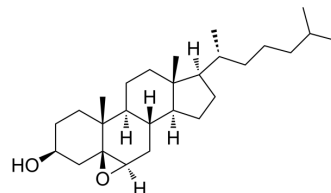


Cholesterol 5beta,6beta-epoxide

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



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 Δ^5 -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.

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