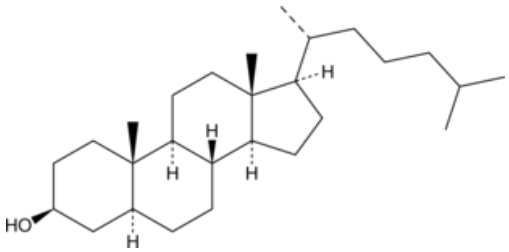
Product Data Sheet

Product Name: Coprostanol
Cat. No.: GC40514

Chemical Properties

Cas. No.	360-68-9		
Chemical Name	(5β)-cholestan-3β-ol		
SMILES	C[C@H](CCCC(C)C)[C@@]1([H])CC[C@@]2([H])[C@]3([H])CC[C@]4([H])C[C@@H](O)CC[C@]4(C)[C@@]3([H])CC[C@@]21C		
Formula	C27H48O	M.Wt	388.7
Solubility	30 mg/ml in Chloroform, 2mg/mL in DMF, 0.1mg/mL in DMSO, 20mg/mL in Ethanol	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

Coprostanol is a cholesterol derivative formed in mammals by intestinal microorganisms and is the odorous compound in feces. [1]It is formed via conversion of cholesterol to cholestenone then coprostanone intermediates or by direct reduction of the 5,6 double bond. Coprostanol is commonly used as a marker of sewage contamination in soil and watersheds.[2][3]

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

[1]. Ren, D., Li, L., Schwabacher, A.W., et al. Mechanism of cholesterol reduction to coprostanol by Eubacterium coprostanoligenes ATCC 51222. Steroids 61(1), 33-40 (1996).
[2]. von der Lühe, B., Dawson, L.A., Mayes, R.W., et al. Investigation of sterols as potential biomarkers for the detection of pig (S. s. domesticus) decomposition fluid in soils. Forensic Sci. Int. 230(1-3), 68-73 (2013).
[3]. Nichols, P.D., Leeming, R., Rayner, M.S., et al. Comparison of the abundance of the fecal sterol coprostanol and fecal bacterial groups in inner-shelf waters and sediments near Sydney, Australia. J. Chromatogr. 643(1-2), 189-195 (1993).

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