

Product Data Sheet

Product Name: Coprostanol

Cat. No.: GC40514

Chemical Properties

Cas. No. 360-68-9

Chemical Name (5 β)-cholestan-3 β -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

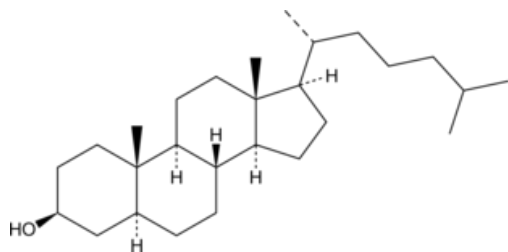
Formula C₂₇H₄₈O M.Wt 388.7

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 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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 L  he, 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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