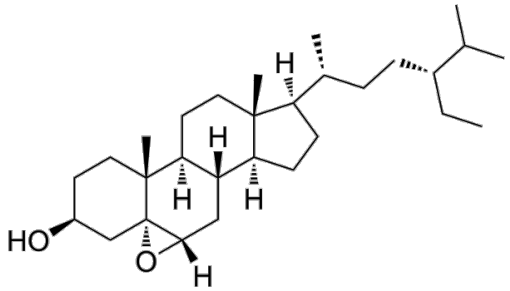
Product Data Sheet

Product Name: 5α,6α-Epoxysitosterol
Cat. No.: GC79621

Chemical Properties

Cas. No.	53034-66-5		
Formula	$C_{29}H_{50}O_2$	M.Wt	430.72
Solubility	Ethanol: 10 mg/mL (23.22 mM; Need ultrasonic)	Storage	Store at -20°C, sealed storage, away from moisture and light
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

5α,6α-Epoxysitosterol is a minor β-sitosterol oxidation product and 5,6-epoxy thermo-oxidation product of sitosterol [1] [2].

In Vitro, 5α,6α-Epoxysitosterol (5,6α-epoxysitosterol) is a minor thermal oxidation product generated from pure β-sitosterol at 180 °C[1]. 5α,6α-Epoxysitosterol is a minor thermal oxidation product formed from β-sitosterol in corn oil, lard and olive oil at 180 °C[1]. 5α,6α-Epoxysitosterol is a product formed

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by heating natural sitosterol in rapeseed oil[2].

References:

[1]. Xu G, Guan L, Sun J, et al.. Oxidation of cholesterol and beta-sitosterol and prevention by natural antioxidants. Journal of agricultural and food chemistry. 2009 Oct 14;57(19):9284-92.
[2]. Lampi AM, Juntunen L, Toivo J, et al.. Determination of thermo-oxidation products of plant sterols. Journal of chromatography. B, Analytical technologies in the biomedical and life sciences. 2002 Sep 25;777(1-2):83-92.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA