

Product Data Sheet

Product Name: 5 α ,6 α -Epoxy-sitosterol

Cat. No.: GC79621

Chemical Properties

Cas. No. 53034-66-5

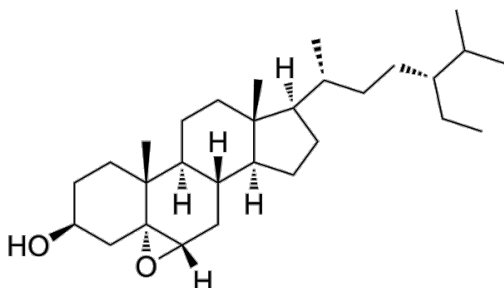
Formula C₂₉H₅₀O₂ M.Wt 430.72

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

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

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

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

Product Data Sheet

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