

Product Data Sheet

Product Name: Cholesterol

Cat. No.: GC17398

Chemical Properties

Cas. No. 57-88-5

Chemical Name (3S,8S,9S,10R,13R,14S,17R)-10,13-dimethyl-17-[(2R)-6-methylheptan-2-yl]-2,3,4,7,8,9,11,12,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-3-ol

SMILES CC(C)CCCC(C)C1CCC2C1(CCC3C2CC=C4C3(CCC(C4)O)C)C

Formula $C_{27}H_{46}O$

M.Wt 386.65

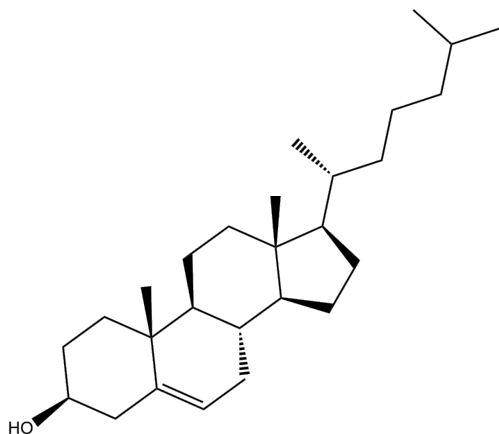
Solubility <3.87mg/mL in DMSO

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

Cholesterol is the major sterol in mammals, and its importance in fundamental cellular processes is becoming more appreciated. IC₅₀ value: Target: In vitro: GT1-7 hypothalamic cells subjected to cholesterol depletion in vitro produced 20-31% reductions in cellular cholesterol content, similar to the decrease in cholesterol synthesis observed in diabetes [1]. In vivo:

References:

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

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- [1]. Laverdy OG, et al. Effects of glycemic control upon serum lipids and lipid transfers to HDL in patients with type 2 diabetes mellitus: novel findings in unesterified cholesterol status. *Experimental and Clinical Endocrinology & Diabetes*, 2015, 123(4):232-239
- [2]. Sandy Huey-Jen Hsu, et al. Validation of the Estimation of Low-density Lipoprotein Cholesterol by the Modified Friedewald Equation in Ethnic Chinese Adults Living in Taiwan. *Internal Medicine*, 54: 2291-2297, 2015
- [3]. Fukui K, et al. Effect of Cholesterol Reduction on Receptor Signaling in Neurons. *J Biol Chem*. 2015 Sep 14.

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