

Product Data Sheet

Product Name: Cholesteryl Acetate

Cat. No.: GC49026

Chemical Properties

Cas. No. 604-35-3

SMILES CC(=O)OCC1=C[C@H]([C@@H]([C@@H]([C@H]1CC[C@@H]2[C@@]([C@@H]([C@H]2CC)OC(=O)C)C)C)C)C

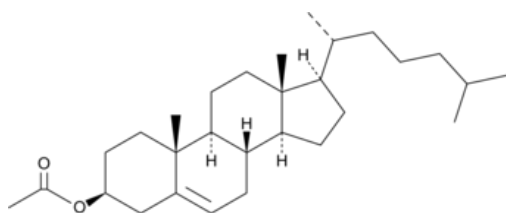
Formula C₂₉H₄₈O₂ M.Wt 428.7

Solubility Chloroform: slightly soluble, Methanol: slightly soluble Storage -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

Cholesteryl acetate is a cholesterol ester.¹ It has been used as an internal standard for the quantification of cholesterol, as well as cholesterol derivatives, by GC or GLC.^{2,3} Cholesteryl acetate has also been derivatized from, and used for the quantification of, cholesterol by ESI-MS/MS.⁴ It has also been used in the manufacturing of liquid crystal displays (LCDs), wrist watches, and thermometers.⁵

1. Huang, Z., Kawi, S., and Chiew, Y.C. Solubility of cholesterol and its esters in supercritical carbon dioxide with and without cosolvents. *J. Supercrit. Fluids* 30(1)25-39(2004) 2. Jones Owen, V.M., Ho, F.K., Mazzuchin, A., et al. Cholesterol in amniotic fluid, determined by gas chromatography. *Clin. Chem.* 22(2)224-226(1976) 3. Gray, G.M., and Yardley, H.J. Lipid compositions of cells isolated from

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

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pig, human, and rat epidermis. *J. Lipid Res.* 16(6)434-440(1975) 4. Liebisch, G., Binder, M., Schifferer, R., et al. High throughput quantification of cholesterol and cholesteryl ester by electrospray ionization tandem mass spectrometry (ESI-MS/MS). *Biochim. Biophys. Acta* 176(1)121-128(2006) 5. Vijayakumar, V.N., Rajasekaran, T.R., and Baskar, K. Influence of hydrogen bond on thermal and phase transitions of binary complex liquid crystals. *Russ. J. Phys. Chem. A* 91(13)2578-2584(2017)

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