

Product Data Sheet

Product Name: Cholesterol (Water Soluble)

Cat. No.: GC63773

Chemical Properties

Cas. No.

Formula

M.Wt

Solubility Water : 50 mg/mL (Need ultrasonic) Storage 4°C, 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

Cholesterol-Water Soluble

Background

Cholesterol Water Soluble can be used for the research of the effects of cholesterol on the potassium currents in inner hair cells (IHCs). Cholesterol is an integral component of the cell membrane and regulates the activity of ion channels in the lipid bilayer[1][2].

In solution of 1mM water-soluble cholesterol, the amplitude of K currents in isolated IHCs is reversely changed[2].

[1]. Kimitsuki T. Cholesterol influences potassium currents in inner hair cells isolated from guinea pig cochlea. *Auris Nasus Larynx*. 2017;44(1):46-51. [2]. Nguyen TV, et al. Contribution of membrane

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

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cholesterol to outer hair cell lateral wall stiffness. Otolaryngol Head Neck Surg. 1998;119(1):14-20.

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