

## Cholesterol (Water Soluble)

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage:

Keep away from moisture, Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Cholesterol (Water Soluble) is a water-soluble cholesterol preparation used in experimental studies to investigate the specific effects of cholesterol enrichment or depletion on the biophysical properties and functional characteristics of inner hair cells (IHCs) with regard to potassium currents. As an essential component of the plasma membrane, cholesterol has the ability to modulate the activity and kinetics of ion channels embedded in the lipid bilayer. (Note: This product is a mixture of cholesterol and methyl- $\beta$ -cyclodextrin.)
Targets(IC50)	Others, Liposome

## Solubility Information

Solubility	H2O: 40 mg/mL, Sonication is recommended. DMSO: $\geq$ 25 mg/mL ( $<$ 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL, Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Reference

- Kimitsuki T. Cholesterol influences potassium currents in inner hair cells isolated from guinea pig cochlea. *Auris Nasus Larynx*. 2017;44(1):46-51.
- Nguyen TV, et al. Contribution of membrane cholesterol to outer hair cell lateral wall stiffness. *Otolaryngol Head Neck Surg*. 1998;119(1):14-20.

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Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481