

Cholesterol (Water Soluble)

Cat. No.:	HY-N0322A
Target:	Liposome
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

Cholesterol-Water Soluble

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (Need ultrasonic)
In Vivo	1. Add each solvent one by one: PBS Solubility: 33.33 mg/mL (Infinity mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	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 Vitro	In solution of 1mM water-soluble cholesterol, the amplitude of K currents in isolated IHCs is reversely changed ^[2] . .Note:Product is approximately 40 mg of Cholesterol per gram containing a balance of Methyl-B-cyclodextrin. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Nanotechnol. 2021 Oct;16(10):1150-1160.
- Immunity. 2024 May 14;57(5):1087-1104.e7.
- Nat Commun. 2024 Jan 2;15(1):162.
- Adv Sci (Weinh). 2023 Sep;10(27):e2206878.
- Nat Chem Biol. 2022 Aug 18.

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REFERENCES

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

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

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