

3 $\beta$ ,5 $\alpha$ ,6 $\beta$ -Trihydroxycholestane

## Chemical Properties

CAS No. : 1253-84-5

Formula: C<sub>27</sub>H<sub>48</sub>O<sub>3</sub>

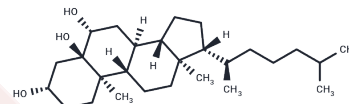
Molecular Weight: 420.67

Storage:

Store at low temperature, 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   | 3 $\beta$ ,5 $\alpha$ ,6 $\beta$ -Trihydroxycholestane is a cholesterol metabolite found mainly in animal fats and can modulate SMO activity. 3 $\beta$ ,5 $\alpha$ ,6 $\beta$ -Trihydroxycholestane can be used as a biomarker for schizophrenia. |
| Targets(IC50) | Endogenous Metabolite  |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMF: 1 mg/mL (2.38 mM), Sonication is recommended.<br>Ethanol:PBS: 0.3 mg/mL (0.71 mM), Sonication is recommended.<br>DMSO: 80 mg/mL (190.17 mM), Sonication is recommended.<br>Ethanol:PBS (pH 7.2)(1:2): 0.3 mg/mL (0.71 mM), Sonication is recommended.<br>Ethanol: 5 mg/mL (11.89 mM), Sonication is recommended.<br>( < 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.3772 mL | 11.8858 mL | 23.7716 mL |
| 5 mM  | 0.4754 mL | 2.3772 mL  | 4.7543 mL  |
| 10 mM | 0.2377 mL | 1.1886 mL  | 2.3772 mL  |
| 50 mM | 0.0475 mL | 0.2377 mL  | 0.4754 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Chen J, et al. Cholestane-3 $\beta$ ,5 $\alpha$ ,6 $\beta$ -triol Induces Multiple Cell Death in A549 Cells via ER Stress and Autophagy Activation. Mar Drugs. 2024 Apr 13;22(4):174.
- de Medina P, et al. The Cholesterol-5,6-Epoxyde Hydrolase: A Metabolic Checkpoint in Several Diseases. Adv Exp Med Biol. 2024;1440:149-161.
- Petrov AM. Oxysterols in Central and Peripheral Synaptic Communication. Adv Exp Med Biol. 2024;1440:91-123.
- Olivier E, et al. Role of Oxysterols in Ocular Degeneration Mechanisms and Involvement of P2X7 Receptor. Adv Exp Med Biol. 2024;1440:277-292.

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