

## Campesterol

## Chemical Properties

CAS No. : 474-62-4

Formula: C<sub>28</sub>H<sub>48</sub>O

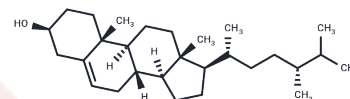
Molecular Weight: 400.68

Keep away from direct sunlight, Keep away from moisture

Storage:

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	Campesterol ((24R)-5-Ergosten-3β-ol) is a plant sterol with cholesterol lowering and anticarcinogenic effects, it and other plant sterols often decrease LDL cholesterol levels overall. Campesterol has anti-inflammatory effect, it inhibits several pro-inflammatory and matrix degradation mediators typically involved in osteoarthritis- induced cartilage degradation, also sometimes used to treat some specific prostate conditions.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	Ethanol: 5 mg/mL (12.48 mM), Sonication and heating are recommended. DMSO: Insoluble, H <sub>2</sub> O: Insoluble, ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4958 mL	12.4788 mL	24.9576 mL
5 mM	0.4992 mL	2.4958 mL	4.9915 mL
10 mM	0.2496 mL	1.2479 mL	2.4958 mL
50 mM	0.0499 mL	0.2496 mL	0.4992 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

Wu Z K, Li H Y, Zhu Y L, et al. Neuroprotective and anti-inflammatory effects of eicosane on glutamate and NMDA-induced retinal ganglion cell injury. *International Journal of Ophthalmology*. 2024, 17(4): 638.

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