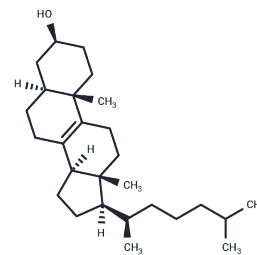


## Zymostenol

## Chemical Properties

CAS No. :	566-97-2
Formula:	C <sub>27</sub> H <sub>46</sub> O
Molecular Weight:	386.65
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Zymostenol (5a-Cholest-8-en-3b-ol) is a RORγ agonist with an EC <sub>50</sub> of 1 μM and serves as a late-stage precursor in cholesterol biosynthesis.
Targets(IC <sub>50</sub> )	Endogenous Metabolite,ROR
In vitro	Zymostenol (12-104 μM) promotes the formation of myelin basic protein-positive (MBP+) oligodendrocytes in mouse ectodermal stem cell-derived oligodendrocyte progenitors. [2] Zymostenol (20 μM, 3 days) arrests the MCF-7 cell cycle in the G <sub>0</sub> -G <sub>1</sub> phase.[3]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5863 mL	12.9316 mL	25.8632 mL
5 mM	0.5173 mL	2.5863 mL	5.1726 mL
10 mM	0.2586 mL	1.2932 mL	2.5863 mL
50 mM	0.0517 mL	0.2586 mL	0.5173 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

- Hu X, et al. Sterol metabolism controls TH17 differentiation by generating endogenous ROR $\gamma$  agonists Nat. Chem Biol. 2015;11(9), 141-147.
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- Payré B, et al. Microsomal antiestrogen-binding site ligands induce growth control and differentiation of human breast cancer cells through the modulation of cholesterol metabolism. Mol Cancer Ther. 2008;7(12):3707-3718.
- Kaman WE, et al. Gramicidin A is hydrolyzed by a d-stereospecific peptidase produced by Bacillus anthracis. Environ Microbiol Rep. 2022;14(4):570-576.

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