

## Zymosterol

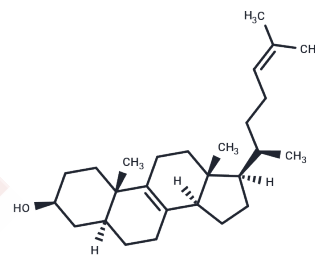
## Chemical Properties

CAS No. : 128-33-6

Formula: C<sub>27</sub>H<sub>44</sub>O

Molecular Weight: 384.64

Storage: 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	Zymosterol is a biosynthetic metabolite of cholesterol. As a precursor of cholesterol, it is mainly located in the plasma membrane and undergoes intracellular recycling.
Targets(IC50)	Endogenous Metabolite
In vitro	Methods: In human fibroblasts, the conversion process of Zymosterol to cholesterol was tracked, and its subcellular localization was determined. Results: In human fibroblasts, Zymosterol was converted to cholesterol only in the rough endoplasmic reticulum (rough ER) [2].

## Solubility Information

Solubility	DMSO: 2.86 mg/mL (7.44 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5998 mL	12.9992 mL	25.9983 mL
5 mM	0.520 mL	2.5998 mL	5.1997 mL
10 mM	0.260 mL	1.2999 mL	2.5998 mL
50 mM	0.052 mL	0.260 mL	0.520 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

Jena PK, et al. Dysregulated bile acid receptor-mediated signaling and IL-17A induction are implicated in diet-associated hepatic health and cognitive function. *Biomark Res.* 2020 Nov 6;8(1):59.

Lange Y, et al. Movement of zymosterol, a precursor of cholesterol, among three membranes in human fibroblasts. *J Biol Chem.* 1991 Nov 15;266(32):21439-43.

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