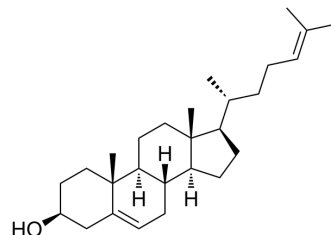


## Desmosterol

Cat. No.:	HY-113224
CAS No.:	313-04-2
Molecular Formula:	C <sub>27</sub> H <sub>44</sub> O
Molecular Weight:	384.64
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMF : 50 mg/mL (129.99 mM; Need ultrasonic)  
H<sub>2</sub>O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	2.5998 mL	12.9992 mL	25.9983 mL
	5 mM	0.5200 mL	2.5998 mL	5.1997 mL	
	10 mM	0.2600 mL	1.2999 mL	2.5998 mL	

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Desmosterol is a molecule similar to cholesterol. Desmosterol is the immediate precursor of cholesterol in the Bloch pathway of cholesterol biosynthesis. Desmosterol, as an endogenous metabolite, used to study cholesterol metabolism<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

### CUSTOMER VALIDATION

- J Exp Clin Cancer Res. 2022 Mar 30;41(1):116.
- Cell Death Dis. 2023 Nov 14;14(11):740.
- Research Square Preprint. 2023 Jun 22.
- Research Square Preprint. 2022 Jan.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

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[1]. Clark RM, et al. Desmosterol in human milk. *Lipids*. 1983;18(3):264-266.

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

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