

Desmosterol

Chemical Properties

CAS No. : 313-04-2

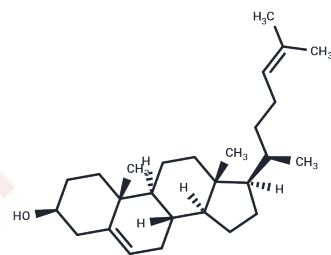
Formula: C₂₇H₄₄O

Molecular Weight: 384.64

Store at low temperature

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	Desmosterol (24-Dehydrocholesterol) is a cholesterol biosynthesis intermediate that inhibits macrophage inflammatory vesicle activation and prevents vascular inflammation and atherosclerosis.
Targets(IC50)	NOD-like Receptor (NLR),Endogenous Metabolite,Fatty Acid Synthase,Interleukin,Liver X Receptor,ROS

Solubility Information

Solubility	H ₂ O: <0.1 mg/mL (Insoluble) DMF: 10 mg/mL (26 mM),Sonication is recommended. DMSO: 1 mg/mL (2.6 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

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

Mouritsen OG, Bagatolli LA, Duelund L, Garvik O, Ipsen JH, Simonsen AC. Effects of seaweed sterols fucosterol and desmosterol on lipid membranes. *Chem Phys Lipids*. 2017 Jun;205:1-10. doi: 10.1016/j.chemphyslip.2017.03.010. Epub 2017 Mar 30. PubMed PMID: 28365392.

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Korade Ž, Liu W, Warren EB, Armstrong K, Porter NA, Konradi C. Effect of psychotropic drug treatment on sterol metabolism. *Schizophr Res*. 2017 Feb 12. pii: S0920-9964(17)30072-5. doi: 10.1016/j.schres.2017.02.001. [Epub ahead of print] PubMed PMID: 28202290.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481