

## Saringosterol

## Chemical Properties

CAS No. : 6901-60-6

Formula: C<sub>29</sub>H<sub>48</sub>O<sub>2</sub>

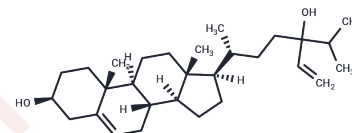
Molecular Weight: 428.69

Storage:

Store at low temperature, 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	Saringosterol is an antimicrobial phytosterol with inhibitory activity against Mycobacterium tuberculosis.
Targets(IC50)	Antibacterial, Liver X Receptor
In vitro	In RAW264.7 macrophages, Saringosterol (2-10 μM, 24 h) significantly inhibits LPS-induced production of NO and IL-6, indicating anti-inflammatory activity. In ABCA1 expression assays, Saringosterol (5 μM) activates the LXR signaling pathway and upregulates ABCA1 and ABCG1 gene expression[1].
In vivo	In a high-fat diet-induced Alzheimer's disease mouse model, intraperitoneal injection of Saringosterol (10 mg/kg, every 2 days for 8 weeks) significantly increased ABCA1 and APOE expression in the hippocampus, enhanced cholesterol efflux, and improved learning and memory[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3327 mL	11.6634 mL	23.3269 mL
5 mM	0.4665 mL	2.3327 mL	4.6654 mL
10 mM	0.2333 mL	1.1663 mL	2.3327 mL
50 mM	0.0467 mL	0.2333 mL	0.4665 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

Yan Y, Niu Z, Wang B, Zhao S, Sun C, Wu Y, Li Y, Ying H, Liu H. Saringosterol from Sargassum fusiforme Modulates Cholesterol Metabolism and Alleviates Atherosclerosis in ApoE-Deficient Mice. Mar Drugs. 2021 Aug 26;19(9):485.  
Martens N, et al. 24(S)-Saringosterol Prevents Cognitive Decline in a Mouse Model for Alzheimer's Disease. Mar Drugs. 2021 Mar 27;19(4):190.

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