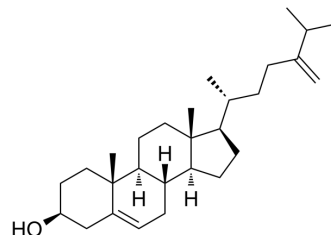


## 24-Methylenecholesterol

<b>Cat. No.:</b>	HY-133968		
<b>CAS No.:</b>	474-63-5		
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>46</sub> O		
<b>Molecular Weight:</b>	398.66		
<b>Target:</b>	Acyltransferase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

#### Description

24-Methylenecholesterol (Ostreasterol), a natural marine sterol, stimulates cholesterol acyltransferase in human macrophages. 24-Methylenecholesterol possess anti-aging effects in yeast. 24-methylenecholesterol enhances honey bee longevity and improves nurse bee physiology<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Sun Y, et al. Sterols from Mytilidae show anti-aging and neuroprotective effects via anti-oxidative activity. *Int J Mol Sci.* 2014 Nov 25;15(12):21660-73.
- [2]. Chakrabarti P, et al. Changes in Honey Bee Head Proteome in Response to Dietary 24-Methylenecholesterol. *Insects.* 2020 Oct 29;11(11):743.
- [3]. Tabas I, et al. The reactivity of desmosterol and other shellfish- and xanthomatosis-associated sterols in the macrophage sterol esterification reaction. *J Clin Invest.* 1989 Dec;84(6):1713-21.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA