

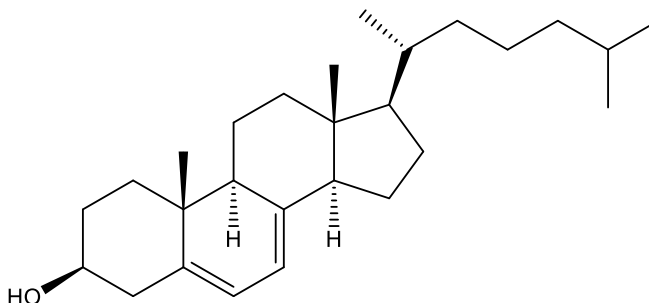
**Catalog # 10-3941**

**7-Dehydrocholesterol**

CAS# 434-16-2

Cholesta-5,7-dien-3 $\beta$ -ol; Provitamin D3

Lot # FBS4014



7-Dehydrocholesterol is an endogenous cholesterol precursor and is photochemically converted to vitamin D3 in the skin.<sup>1</sup> It has recently been found to be an endogenous suppressor of ferroptosis and can confer a prosurvival state in cancer cells.<sup>2</sup>

- 1) MacLaughlin *et al.* (1982), *Spectral character of sunlight modulates photosynthesis of provitamin D3 and its photoisomers in human skin*; *Science*, **216** 1001
- 2) Freitas *et al.* (2024), *7-Dehydrocholesterol is an endogenous suppressor of ferroptosis*; *Nature*, **626** 401

**PHYSICAL DATA**

Molecular Weight:	384.65
Molecular Formula:	C <sub>27</sub> H <sub>44</sub> O
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (5 mg/ml with warming); Ethanol (10 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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