

FT-AX5SG0

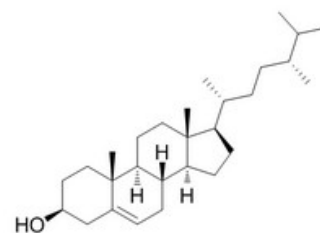


Campesterol

Plant sterol with cholesterol lowering and anticarcinogenic effects.

Product Description

Catalog #: AX5SG1, 2mg AX5SG0, 5mg AX5SG3, 10mg AX5SG2, 25mg
Name: **Campesterol**
 (24R)-5-Ergosten-3 β -ol
 CAS [474-62-4]
MW : 400.68
Formula : C₂₈H₄₈O
Purity : >98 %
Solubility : 10 mM in Ethanol
Storage: Powder -20°C (3 years) or 4°C (2 years)
 In solvent -80°C (6 months) or -20°C (1 month)



For Research Use Only

General informations

In vitro

Campesterol shows a weak cytotoxicity in non-proliferating human umbilical vein endothelial cells (HUVECs). Within the non-cytotoxic concentration range, campesterol significantly inhibits the bFGF-induced proliferation and tube formation of HUVECs in a concentration-dependent manner, while it does not affect the motility of HUVECs. 50 μ g/mL of campesterol decreases the cell viability up to about 56% of control (IC₅₀ of over 50 μ g/mL).

In vivo

Campesterol effectively disrupts the bFGF-induced neovascularization in chick chorioallantoic membrane (CAM) *in vivo*

Cell Assay

The effect of campesterol on the viable cell number was assessed by XTT assay. HUVECs were treated with various concentrations (10, 20, 30, 40 and 50 μ g/mL) of campesterol and incubated at 37 °C in a humidified incubator for 24 h, a XTT working solution was added to each well. The cells were incubated at 37 °C for 2 h and the optical density was measured using a microplate reader at 450 nm^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

LIFE SCIENCES

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References

[1]. Choi JM, et al. Identification of campesterol from Chrysanthemum coronarium L. and its antiangiogenic activities. Phytother Res. 2007 Oct;21(10):954-9.

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.
Please inquire for higher quantities (availability, shipment conditions).

Please contact InterBioTech – Interchim for any other information
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