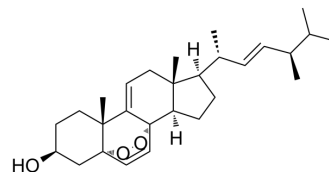


5,8-Epidioxyergosta-6,9(11),22-trien-3-ol

Cat. No.:	HY-N7175
CAS No.:	86363-50-0
Molecular Formula:	C ₂₈ H ₄₂ O ₃
Molecular Weight:	426.63
Target:	Apoptosis; Endogenous Metabolite
Pathway:	Apoptosis; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	5,8-Epidioxyergosta-6,9(11),22-trien-3-ol (9,11-Dehydroergosterol peroxide), an important steroid from medicinal mushroom, exerts antitumor activity in several tumor types. 5,8-Epidioxyergosta-6,9(11),22-trien-3-ol inhibits HT29 cell growth by inducing CDKN1A expression, thus causing cell cycle arrest and apoptosis ^{[1][2]} .
IC₅₀ & Target	Microbial Metabolite
In Vitro	5,8-Epidioxyergosta-6,9(11),22-trien-3-ol (9,11-Dehydroergosterol peroxide) is an effective inhibitor of HL60 leukemia cell growth and apoptosis-inducer ^[1] . Apoptosis induced by 5,8-Epidioxyergosta-6,9(11),22-trien-3-ol from Ganoderma Lucidum mycelium in human malignant melanoma cells is Mcl1 dependent ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Kobori M, Yoshida M, Ohnishi-Kameyama M, Takei T, Shinmoto H. 5alpha,8alpha-Epidioxy-22E-ergosta-6,9(11),22-trien-3beta-ol from an edible mushroom suppresses growth of HL60 leukemia and HT29 colon adenocarcinoma cells. *Biol Pharm Bull.* 2006;29(4):755-759.
- [2]. Zheng L, et al. Apoptosis induced by 9,11 dehydroergosterol peroxide from Ganoderma Lucidum mycelium in human malignant melanoma cells is Mcl 1 dependent. *Mol Med Rep.* 2018;18(1):938-944.

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