



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

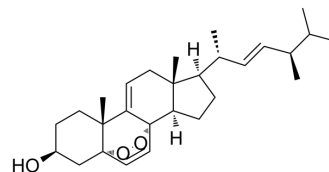
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

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



### BIOLOGICAL ACTIVITY

<b>Description</b>	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 <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Microbial Metabolite
<b>In Vitro</b>	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 <sup>[1]</sup> . 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 <sup>[2]</sup> . 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