



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

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

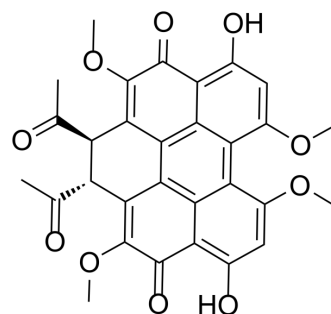
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Elsinochrome A

Cat. No.:	HY-N10611
CAS No.:	24568-67-0
Molecular Formula:	C ₃₀ H ₂₄ O ₁₀
Molecular Weight:	544.51
Target:	Reactive Oxygen Species; Apoptosis; Autophagy; Fungal; Fluorescent Dye
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Apoptosis; Autophagy; Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Elsinochrome A is a perylene quinone photosensitizer, and can generate reactive oxygen species (ROS) to induce apoptosis and autophagy under light excitation. Elsinochrome A also shows antifungal activity against <i>C. albicans</i> biofilm through photodynamic antimicrobial chemotherapy (PACT). Elsinochrome A can be used for research of photodynamic therapy (PDT) (Ex: 460 nm) ^{[1][2]} .																
In Vitro	Elsinochrome A (0-3 μM, 5 min) reduces survival rate, induces intracellular ROS production, induces formation of autophagosomes and induces apoptosis under light illumination in B16 cells^[1]. Elsinochrome A (0.3-3 μM, 5 min) is located in the mitochondria of the B16 cells^[1]. Elsinochrome A (0-32 μg/mL, 24 or 48 h) shows antifungal activity against <i>C. albicans</i> after irradiation^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. RT-PCR^[1] <table border="1"> <tr> <td>Cell Line:</td><td>B16 cells</td></tr> <tr> <td>Concentration:</td><td>0.3-3 μM</td></tr> <tr> <td>Incubation Time:</td><td>5 min</td></tr> <tr> <td>Result:</td><td>Decreased expression of atg2, atg9 and atg10 genes. Increased expression of caspase2, caspase9 and tnfgenes.</td></tr> </table> Western Blot Analysis^[1] <table border="1"> <tr> <td>Cell Line:</td><td>B16 cells</td></tr> <tr> <td>Concentration:</td><td>0.3-3 μM</td></tr> <tr> <td>Incubation Time:</td><td>5 min</td></tr> <tr> <td>Result:</td><td>Decreased expression of Atg5 and CytC protein.</td></tr> </table>	Cell Line:	B16 cells	Concentration:	0.3-3 μM	Incubation Time:	5 min	Result:	Decreased expression of atg2, atg9 and atg10 genes. Increased expression of caspase2, caspase9 and tnfgenes.	Cell Line:	B16 cells	Concentration:	0.3-3 μM	Incubation Time:	5 min	Result:	Decreased expression of Atg5 and CytC protein.
Cell Line:	B16 cells																
Concentration:	0.3-3 μM																
Incubation Time:	5 min																
Result:	Decreased expression of atg2, atg9 and atg10 genes. Increased expression of caspase2, caspase9 and tnfgenes.																
Cell Line:	B16 cells																
Concentration:	0.3-3 μM																
Incubation Time:	5 min																
Result:	Decreased expression of Atg5 and CytC protein.																

REFERENCES

-
- [1]. Yao Y, et al. Elsinochrome A induces cell apoptosis and autophagy in photodynamic therapy. J Cell Biochem. 2023 Sep;124(9):1346-1365.
- [2]. Pan L, et al. Inhibitory Effects and Mechanism of Action of Elsinochrome A on Candida albicans and Its Biofilm. J Fungi (Basel). 2022 Aug 11;8(8):841.
-

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