



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

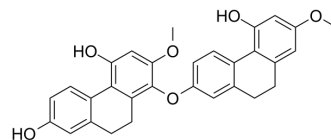
mail@szabo-scandic.com

www.szabo-scandic.com

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

Phoyunnanin E

Cat. No.:	HY-N9489
CAS No.:	886747-60-0
Molecular Formula:	C ₃₀ H ₂₆ O ₆
Molecular Weight:	482.52
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Phoyunnanin E, isolated from <i>Dendrobium venustum</i> , possesses anti-migration activity. Phoyunnanin E can be used for the research of cancer ^[1] .														
In Vitro	<p>Phoyunnanin E (0~10 μM; 48 hours; H460 cells) decreases cell migration through integrin downregulation^[1].</p> <p>Phoyunnanin E (0~100 μM; 24 and 48 hours; H460 cells) shows that the proliferation rate of treated cells have significantly decreased in a dose-dependent manner at the concentration of 10 μM at 48 hours^[1].</p> <p>Phoyunnanin E (0~100 μM; 24 hours; H460 cells) induces cytotoxic effects at the concentrations from 50 to 100 μM and induces a significant increase in apoptotic and necrotic cells at 20~100 μM^[1].</p> <p>Phoyunnanin E (0~10 μM; 48 hours; H460, H292 and A549 cells) significantly decreases the number of cells invading across the matrix and transwell filter within 24 hours in a dose-dependent manner^[1].</p> <p>Phoyunnanin E attenuates anchorage-independent growth and migration of lung cancer H460 cells. Phoyunnanin E significantly inhibits cell migration across the wound space at the concentrations of 5 and 10 μM, at 24 h and 48 h, compared to the non-treated control. Phoyunnanin E (0~10 μM; 48 hours) exhibits a significant decrease in filopodia numbers at the protrusion edges of the cells in a dose-dependent manner. Phoyunnanin E decreases cancer cell migration in other human lung cancer cells. Phoyunnanin E decreases cancer cell invasion. Phoyunnanin E suppresses epithelial-mesenchymal transition (EMT). Phoyunnanin E down-regulates integrins αv and β3 and the regulatory proteins in cell migration^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>H460 cells</td> </tr> <tr> <td>Concentration:</td> <td>1~10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 hours</td> </tr> <tr> <td>Result:</td> <td>Decreased cell migration through integrin downregulation.</td> </tr> </table> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>H460 cells</td> </tr> <tr> <td>Concentration:</td> <td>0~100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 and 48 hours</td> </tr> </table>	Cell Line:	H460 cells	Concentration:	1~10 μM	Incubation Time:	48 hours	Result:	Decreased cell migration through integrin downregulation.	Cell Line:	H460 cells	Concentration:	0~100 μM	Incubation Time:	24 and 48 hours
Cell Line:	H460 cells														
Concentration:	1~10 μM														
Incubation Time:	48 hours														
Result:	Decreased cell migration through integrin downregulation.														
Cell Line:	H460 cells														
Concentration:	0~100 μM														
Incubation Time:	24 and 48 hours														

Result:	The proliferation rate of treated cells had significantly decreased in a dose-dependent manner at the concentration of 10 μ M at 48 h.
---------	--

Apoptosis Analysis^[1]

Cell Line:	H460 cells
------------	------------

Concentration:	0~100 μ M
----------------	---------------

Incubation Time:	24 hours
------------------	----------

Result:	Induced a significant increase in apoptotic and necrotic cells at 20~100 μ M.
---------	---

Cell Cytotoxicity Assay^[1]

Cell Line:	H460 cells
------------	------------

Concentration:	0~100 μ M
----------------	---------------

Incubation Time:	24 hours
------------------	----------

Result:	Induced cytotoxic effects at the concentrations from 50 to 100 μ M.
---------	---

Immunofluorescence^[1]

Cell Line:	H460, H292 and A549 cells
------------	---------------------------

Concentration:	0~10 μ M
----------------	--------------

Incubation Time:	48 hours
------------------	----------

Result:	Significantly decreased the number of cells invading across the matrix and transwell filter within 24 hours in a dose-dependent manner.
---------	---

REFERENCES

[1]. Petpiroon N, et al. Phoyunnarin E inhibits migration of non-small cell lung cancer cells via suppression of epithelial-to-mesenchymal transition and integrin α v and integrin β 3. BMC Complement Altern Med. 2017;17(1):553. Published 2017 Dec 29.

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