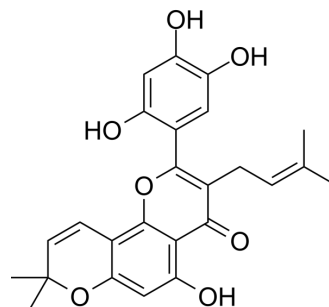


Artonin E

Cat. No.:	HY-125612
CAS No.:	129683-93-8
Molecular Formula:	C ₂₅ H ₂₄ O ₇
Molecular Weight:	436.45
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Artonin E (5'-Hydroxymorusin) is a known prenylated flavonoid that induces apoptosis and arrests the cell cycle in S phase. Artonin E can induce anti-proliferative effects through mitochondrial pathway dysregulation and can be used in cancer research ^[1] .								
In Vitro	<p>Artonin E (0-100 µg/mL, 24-72 h) acts on SKOV-3 cells, T1074 cells, human periodontal ligament fibroblasts and CHO cells with the IC₅₀ values of 12.83, 44.8, 67 and 57.6 µg/mL, respectively . And it can reduce the cell viability of SKOV-3 cells in a time-dependent manner^[1].</p> <p>Artonin E(0-20 µg/mL, 24 h) can inhibit the colony formation of SKOV-3 cells in a dose-dependent manner. At 5 µg/mL, almost half of the colonies were reduced. When using 15 and 20 µg/mL, No colonies formed^[1].</p> <p>Artonin E (8 µg/mL, 24-72 h) can induce the depletion of SKOV-3 cells in S phase, and at 72 h, the accumulation of cells arrested in S phase was significantly increased, while the ratio of cells in G0/G1 phase decreased^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cycle Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>SKOV-3 cell lines</td> </tr> <tr> <td>Concentration:</td> <td>8 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>24, 48, 72 h</td> </tr> <tr> <td>Result:</td> <td> Induced ROS formation. Induced disruption of mitochondrial membrane potential and release of cytochrome c. Significantly upregulated the protein expression levels of caspase-9 and -3, up-regulated Bax and inhibited the expression of Bcl-2, HSP70 and survivin. </td> </tr> </table>	Cell Line:	SKOV-3 cell lines	Concentration:	8 µg/mL	Incubation Time:	24, 48, 72 h	Result:	Induced ROS formation. Induced disruption of mitochondrial membrane potential and release of cytochrome c. Significantly upregulated the protein expression levels of caspase-9 and -3, up-regulated Bax and inhibited the expression of Bcl-2, HSP70 and survivin.
Cell Line:	SKOV-3 cell lines								
Concentration:	8 µg/mL								
Incubation Time:	24, 48, 72 h								
Result:	Induced ROS formation. Induced disruption of mitochondrial membrane potential and release of cytochrome c. Significantly upregulated the protein expression levels of caspase-9 and -3, up-regulated Bax and inhibited the expression of Bcl-2, HSP70 and survivin.								

REFERENCES

[1]. Mashitoh Abd Rahman, et al. Artonin E Induces Apoptosis via Mitochondrial Dysregulation in SKOV-3 Ovarian Cancer Cells. PLoS One. 2016 Mar 28;11(3):e0151466.

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