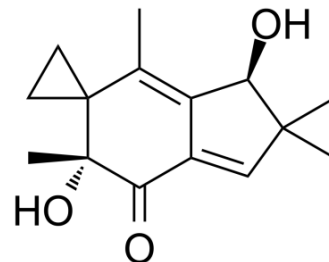


Illudin M

Cat. No.:	HY-122493
CAS No.:	1146-04-9
Molecular Formula:	C ₁₅ H ₂₀ O ₃
Molecular Weight:	248.32
Target:	DNA Alkylator/Crosslinker; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Illudin M is a cytotoxic fungal sesquiterpene that can be isolated from the culture medium of <i>Omphalotus olearius</i> mushrooms. Illudin M can alkylate DNA. Illudin M has anti-tumor activities ^{[1][2]} .									
In Vitro	<p>Illudin M (0.01-10 μM; 24-120 hours) shows cytotoxicity and induction of apoptosis in vitro^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Panc-1 pancreatic carcinoma, HT-29 colon adenocarcinoma, non-malignant human foreskin fibroblasts (HFs)</td> </tr> <tr> <td>Concentration:</td> <td>0.01 μM, 1 μM, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours, 48 hours, 72 hours, 96 hours, 120 hours</td> </tr> <tr> <td>Result:</td> <td>Showed a comparable induction of apoptosis in the tumour cells (86% in Panc-1; 48% in HT-29), but an even greater one in the HF (89%).</td> </tr> </table>		Cell Line:	Panc-1 pancreatic carcinoma, HT-29 colon adenocarcinoma, non-malignant human foreskin fibroblasts (HFs)	Concentration:	0.01 μM, 1 μM, 10 μM	Incubation Time:	24 hours, 48 hours, 72 hours, 96 hours, 120 hours	Result:	Showed a comparable induction of apoptosis in the tumour cells (86% in Panc-1; 48% in HT-29), but an even greater one in the HF (89%).
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REFERENCES

- [1]. Rainer Schobert, et al. Conjugates of the fungal cytotoxin illudin M with improved tumour specificity. *Bioorg Med Chem*. 2008 Sep 15;16(18):8592-7.
- [2]. Dr. Philipp Le, et al. A Chemical Proteomic Analysis of Illudin-Interacting Proteins. *Chemistry*. 2019 Sep 25; 25(54): 12644–12651.

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