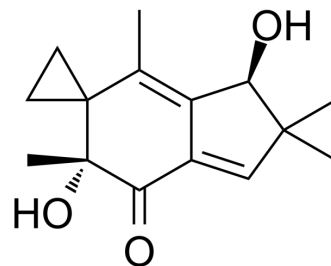


## Illudin M

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



### BIOLOGICAL ACTIVITY

<b>Description</b>	Illudin M is a cytotoxic fungal sesquiterpene that can be isolated from the culture medium of <i>Omphalotus illudens</i> mushrooms. Illudin M can alkylate DNA. Illudin M has anti-tumor activities <sup>[1][2]</sup> .									
<b>In Vitro</b>	<p>Illudin M (0.01-10 μM; 24-120 hours) shows cytotoxicity and induction of apoptosis in vitro<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Apoptosis Analysis<sup>[1]</sup></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.**

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