



# 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

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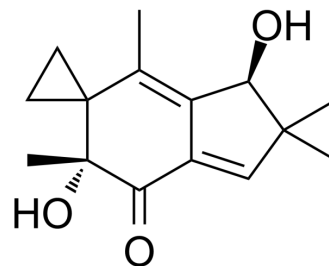
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## Illudin M

<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>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (402.71 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.0271 mL	20.1353 mL	40.2706 mL
	5 mM		0.8054 mL	4.0271 mL	8.0541 mL
	10 mM		0.4027 mL	2.0135 mL	4.0271 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (10.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (10.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (10.07 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Illudin M is a cytotoxic fungal sesquiterpene that can be isolated from the culture medium of *Omphalotus illudens* mushrooms. Illudin M can alkylate DNA. Illudin M has anti-tumor activities<sup>[1][2]</sup>.

#### In Vitro

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.

Apoptosis Analysis<sup>[1]</sup>

Cell Line:	Panc-1 pancreatic carcinoma, HT-29 colon adenocarcinoma, non-malignant human
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	foreskin fibroblasts (HFs)
Concentration:	0.01 $\mu$ M, 1 $\mu$ M, 10 $\mu$ M
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.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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