



# 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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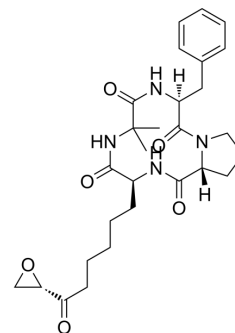
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## Chlamydocin

<b>Cat. No.:</b>	HY-P2228
<b>CAS No.:</b>	53342-16-8
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>38</sub> N <sub>4</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	526.62
<b>Target:</b>	HDAC; Apoptosis
<b>Pathway:</b>	Cell Cycle/DNA Damage; Epigenetics; Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Chlamydocin, a fungal metabolite, is a highly potent HDAC inhibitor, with an IC <sub>50</sub> of 1.3 nM. Chlamydocin exhibits potent antiproliferative and anticancer activities. Chlamydocin induces apoptosis by activating caspase-3 <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	HDAC 1.3 nM (IC <sub>50</sub> )
<b>In Vitro</b>	Chlamydocin is originally isolated from the fungus <i>Diheterospora chlamydosporia</i> . Chlamydocin exhibits a broad spectrum of antiproliferative activity toward various cancer cell lines, irrespective of their p53 status. The antiproliferative activity of Chlamydocin is accompanied by accumulation of hyperacetylated histones H3 and H4, induction of p21cip1/waf1, and accumulation of cells in G2/M phase of the cell cycle <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. De Schepper S, et al. Inhibition of histone deacetylases by chlamydocin induces apoptosis and proteasome-mediated degradation of survivin. *J Pharmacol Exp Ther.* 2003;304(2):881-888.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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