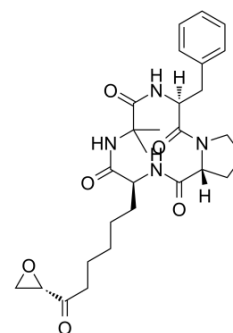


Chlamydocin

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



BIOLOGICAL ACTIVITY

Description	Chlamydocin, a fungal metabolite, is a highly potent HDAC inhibitor, with an IC ₅₀ of 1.3 nM. Chlamydocin exhibits potent antiproliferative and anticancer activities. Chlamydocin induces apoptosis by activating caspase-3 ^[1] .
IC₅₀ & Target	HDAC 1.3 nM (IC ₅₀)
In Vitro	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 ^[1] .

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.

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