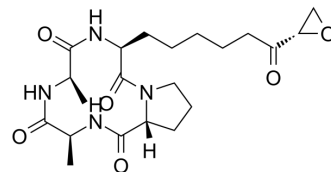


HC-Toxin

Cat. No.:	HY-126856
CAS No.:	83209-65-8
Molecular Formula:	C ₂₁ H ₃₂ N ₄ O ₆
Molecular Weight:	436.5
Target:	HDAC; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Apoptosis
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	HC-Toxin, a cyclic tetrapeptide, is a potent HDAC inhibitor with an IC ₅₀ of 30 nM ^[1] . HC-Toxin induces tumor cell apoptosis and has anticancer effects ^[2] .
In Vitro	HC-Toxin shows potent antiproliferative efficacy and cell cycle arrest at G2/M in T47D human breast cancer cells in a dose-dependent manner. HC-Toxin evokes apoptosis of T47D cells and HC-toxin induced apoptosis might not be mediated through direct increase in caspase-3/7 activity ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. S J Darkin-Rattray, et al. Apicidin: a novel antiprotozoal agent that inhibits parasite histone deacetylase. Proc Natl Acad Sci U S A. 1996 Nov 12;93(23):13143-7.
- [2]. Ki Eun Joung, et al. Antiproliferative effect of trichostatin A and HC-toxin in T47D human breast cancer cells. Arch Pharm Res. 2004 Jun;27(6):640-5.

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

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