

Data Sheet

HC Toxin

Catalog #: 27209

Size: 500 µg

CAS Registry #: 83209-65-8

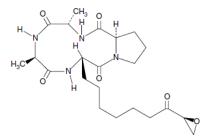
Purity: ≥95%

Chemical Formula: C₂₂H₃₄N₄O₆

Molecular Weight: 450.5

Structure:

Lot #: 120529



Description: HC Toxin is a reversible, cell-permeable inhibitor of HDACs. It is a cyclic tetrapeptide first isolated from *C. carbonum*, a maize pathogen. It up-regulates the expression of 15-lipoxygenase-1 in colorectal cancer cells and has been shown to induce fetal hemoglobin in human primary erythroid cells.

Appearance: A crystalline solid

Solubility: Soluble in methanol, purged with an inert gas. Solubility in methanol is approximately 10 mg/ml. For organic solvent-free aqueous solutions, prepare by directly dissolving the crystalline compound in aqueous buffers. Do not store aqueous solutions for more than one day.

Biological Activity: HC Toxin inhibits HDACs with an $IC_{50} = 30$ nM.

Storage/Stability: Store at or below -20 °C for up to two years.

Quality Control: The purity was determined by HPLC analysis.

References:

- 1. Brosch, G., et al., Plant Cell. 1995; 7: 1941-1950.
- 2. Darkin-Rattray, SJ, et al., Proc. Natl. Acad. Sci. USA. 1996; 93(23): 13143-13147.
- 3. Kamitani, H., et al., Carconogenesis. 2001; 22(1): 187-191.
- 4. Cao, H., et al., Am. J. Hematol. 2006; 81: 981-983.
- 5. Walton, JD., *Phytochemistry*. 2006; **67**: 1406-1413.