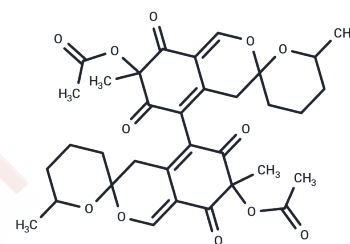


## Cochliodone A

## Chemical Properties

CAS No. :	1072931-48-6
Formula:	C <sub>34</sub> H <sub>38</sub> O <sub>12</sub>
Molecular Weight:	638.66
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Cochliodone A, a bioactive compound isolated from the deep-sea fungus <i>Chaetomium</i> sp., exhibits both antibacterial and anticancer properties. This substance demonstrates toxicity against multiple bacterial strains, as evidenced by its minimum inhibitory concentrations (MICs) of 15.3 µg/mL for <i>V. vulnificus</i> , 32.7 µg/mL for <i>V. rotiferianus</i> , 15.9 µg/mL for <i>S. aureus</i> ATCC 43300, and 16.3 µg/mL for <i>S. aureus</i> CGMCC 1.12409. Additionally, Cochliodone A effectively inhibits several cancer cell lines, with half-maximal inhibitory concentrations (IC <sub>50</sub> s) recorded at 28.1 µM for A549, 20.7 µM for HeLa, and 23.2 µM for Hep G2 [1].
Targets(IC <sub>50</sub> )	Others,Antibacterial

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5658 mL	7.8289 mL	15.6578 mL
5 mM	0.3132 mL	1.5658 mL	3.1316 mL
10 mM	0.1566 mL	0.7829 mL	1.5658 mL
50 mM	0.0313 mL	0.1566 mL	0.3132 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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