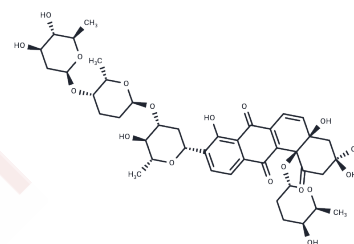


## Urdamycin A

## Chemical Properties

CAS No. :	98474-21-6
Formula:	C43H56O17
Molecular Weight:	844.904
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	Urdamycin A is a bacterial metabolite originally isolated from <i>S. fradiae</i> that has antibacterial and anticancer activities. <sup>1,2</sup> It is active against a variety of Gram-positive and Gram-negative bacteria, including <i>B. subtilis</i> and strains of <i>Arthrobacter</i> and <i>Streptomyces</i> , but not the fungus <i>S. cerevisiae</i> , in a disc assay when used at a concentration of 1 mg/ml. <sup>2</sup> Urdamycin A is cytotoxic to L1210 and HT-29, but not A549, cancer cells (IC50s = 7.5, 5, and >10 µg/ml, respectively). <sup>1</sup>
Targets(IC50)	Others

## Solubility Information

Solubility	Ethanol: Soluble Methanol: Soluble DMSO: Soluble Dichloromethane: Soluble ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1836 mL	5.9179 mL	11.8357 mL
5 mM	0.2367 mL	1.1836 mL	2.3671 mL
10 mM	0.1184 mL	0.5918 mL	1.1836 mL
50 mM	0.0237 mL	0.1184 mL	0.2367 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.

Reference

- Henkel, T., Ciesiolka, T., Rohr, J., et al. Urdamycins, new angucycline antibiotics from *Streptomyces fradiae*. V. Derivatives of urdamycin. *J. Antibiot. (Tokyo)* 42(2):299-311 (1989)
- Drautz, H., Zehner, H., Rohr, J., et al. Metabolic products of microorganisms. 234. Urdamycins, new angucycline antibiotics from *Streptomyces fradiae*. I. Isolation, characterization and biological properties. *J. Antibiot. (Tokyo)* 39(12):1657-1669 (1986)

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