

Product Data Sheet

Product Name: Urdamycin A

Cat. No.: GC48226

Chemical Properties

Cas. No. 98474-21-6

SMILES O[C@@H]1C[C@H](O[C@H]2CC[C@H](O[C@H]3[C@H](O)[C@@H](C)O[C@](C4=C(O)C(C(C(C=C[C@@](C[C@](O)(C)C5)(O)[C@]6(O[C@H]7CC[C@H](O)[C@H](C)O7)C5=O)=C6C8=O)=O)=C8C=C4)([H])C3)O[C@H]2C)O[C@H](C)[C@H]1O

Formula C₄₃H₅₆O₁₇

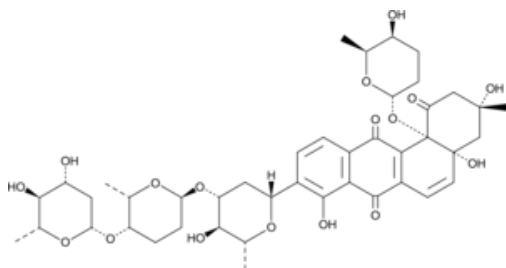
M.Wt 844.9

Solubility Dichloromethane: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Urdamycin A is a bacterial metabolite originally isolated from *S. fradiae* that has antibacterial and anticancer activities.^{1,2} It is active against a variety of Gram-positive and Gram-negative bacteria, including *B. subtilis* and strains of *Arthrobacter* and *Streptomyces*, but not the fungus *S. cerevisiae*, in a disc assay when used at a concentration of 1 mg/ml.² Urdamycin A is cytotoxic to L1210 and HT-29, but not A549, cancer cells (IC₅₀s = 7.5, 5, and >10 µg/ml, respectively).¹

1. Henkel, T., Ciesiolka, T., Rohr, J., et al. Urdamycins, new angucycline antibiotics from *Streptomyces*

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

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

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