

Yuankanin

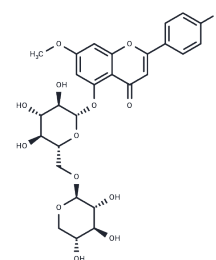
Chemical Properties

CAS No. : 77099-20-8

Formula: C₂₇H₃₀O₁₄

Molecular Weight: 578.52

Storage: Store at low temperature, Keep away from direct sunlight
 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	Yuankanin, a natural compound found in thyme leaves, <i>Daphne gnidium</i> and <i>Daphne feddei</i> , is a genkwanin-5-bioside with anthelmintic activity.
Targets(IC50)	Antioxidant
In vitro	We report herein bioassay-guided isolation of three anthelmintic flavones 1-3, including the flavone, 5,6,2',5',6'-pentamethoxy-3',4'-methylenedioxyflavone (3) from the methanol extract of <i>Struthiola argentea</i> (Thymelaeaceae). The structure of 3 was elucidated by analysis of its 1D and 2D NMR and MS data. The two major flavones produced by this plant were also isolated and identified as Yuankanin (4) and amentoflavone (5). A number of flavones related to the compounds isolated from <i>S. argentea</i> were acquired and tested to ascertain structure activity relationships. The isolation, structure, anthelmintic activity and structure activity relationships of the flavones are described.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7285 mL	8.6427 mL	17.2855 mL
5 mM	0.3457 mL	1.7285 mL	3.4571 mL
10 mM	0.1729 mL	0.8643 mL	1.7285 mL
50 mM	0.0346 mL	0.1729 mL	0.3457 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

Ayers S, et al. Flavones from *Struthiola argentea* with anthelmintic activity in vitro. *Phytochemistry*. 2008;69(2): 541-545.

Ferrari J, et al. Benzophenone glycosides from *Gnidia involucreta*. *Phytochemistry*. 2000;54(8):883-889.

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