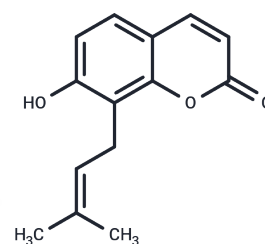


Osthenol

Chemical Properties

CAS No. :	484-14-0
Formula:	C ₁₄ H ₁₄ O ₃
Molecular Weight:	230.26
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	Osthenol is a natural product, and is selective, reversible, and competitive human monoamine oxidase-A (hMAO-A) inhibitor (K _i =0.26 μM). It shows antitumor-promoting activity, it also has antifungal and antibacterial activities.
Targets(IC50)	Apoptosis, MAO, Akt, Monoamine Oxidase, PI3K
In vitro	The constituents were separated by column chromatography, and their structures were elucidated by spectroscopic data analyses. The isolated compounds were evaluated for their cytotoxic activities by MTT method. Eleven compounds were isolated and identified as osthole (1), bergaptan (2), xanthotoxol (3), xanthotoxin (4), imperatorin (5), isopimpinellin (6), Osthenol (7), psoralen (8), 5,7-dimethoxycoumarin (9), oxypeucedaninhydrate (10), and swietenocoumarin F (11). Compounds 7, 9-11 were isolated from the Cnidium genus for the first time[1]

Solubility Information

Solubility	DMSO: 30 mg/mL (130.29 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3429 mL	21.7146 mL	43.4292 mL
5 mM	0.8686 mL	4.3429 mL	8.6858 mL
10 mM	0.4343 mL	2.1715 mL	4.3429 mL
50 mM	0.0869 mL	0.4343 mL	0.8686 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

Studies on coumarins from fruit of *Cnidium monnieri* and their cytotoxic activities. *Zhongguo Zhong Yao Za Zhi*. 2015 Sep;40(18):3594-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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