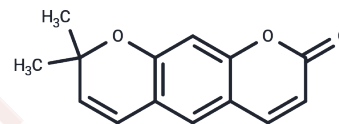


Xanthyletin

Chemical Properties

CAS No. :	553-19-5
Formula:	C ₁₄ H ₁₂ O ₃
Molecular Weight:	228.24
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	Xanthyletin has anti-inflammatory, anti-tumor and anti-bacterial activities, it also inhibits symbiotic fungus cultivated by leaf-cutting ants.
Targets(IC50)	MMP,ERK,Antifungal
In vitro	A new benzo[c]phenanthridine, oxynorchelerythrine (1), and two new benzenoid derivatives, methyl 4-(2-hydroxy-4-methoxy-3-methyl-4-oxobutoxy)benzoate (2) and (E)-methyl 4-(4-((Z)-3-methoxy-3-oxoprop-1-enyl)phenoxy)-2-methylbut-2-enoate (3), have been isolated from the twigs of Zanthoxylum ailanthoides, together with 11 known compounds (4-14). The structures of these new compounds were determined through spectroscopic and MS analyses[1]

Solubility Information

Solubility	DMSO: 60 mg/mL (262.88 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	4.3814 mL	21.9068 mL	43.8135 mL
5 mM	0.8763 mL	4.3814 mL	8.7627 mL
10 mM	0.4381 mL	2.1907 mL	4.3814 mL
50 mM	0.0876 mL	0.4381 mL	0.8763 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

New benzo[c]phenanthridine and benzenoid derivatives, and other constituents from *Zanthoxylum ailanthoides*: Effects on neutrophil pro-inflammatory responses. *Int J Mol Sci.* 2013 Nov 13;14(11):22395-408.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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