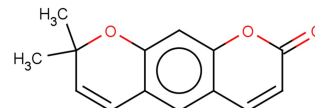


## Xanthyletin

## Chemical Properties

CAS No.:	553-19-5
Formula:	C <sub>14</sub> H <sub>12</sub> O <sub>3</sub>
Molecular Weight:	228.24
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Xanthyletin has anti-inflammatory, anti-tumor and anti-bacterial activities, it also inhibits symbiotic fungus cultivated by leaf-cutting ants.
Targets(IC <sub>50</sub> )	ERK: None MMP: None Immunology & Inflammation related: None
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	< 1 mg/ml refers to the product slightly soluble or insoluble
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.381 mL	21.907 mL	43.814 mL
5 mM	0.876 mL	4.381 mL	8.763 mL
10 mM	0.438 mL	2.191 mL	4.381 mL
50 mM	0.088 mL	0.438 mL	0.876 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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