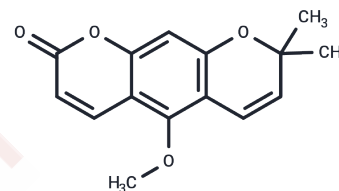


Xanthoxyletin

Chemical Properties

CAS No. :	84-99-1
Formula:	C ₁₅ H ₁₄ O ₄
Molecular Weight:	258.27
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	Xanthoxyletin is a natural coumarin capable of inhibiting DPPH radicals, exhibiting cytotoxicity and apoptosis induction in HepG2, HCT116, and SK-LU-1 cancer cells, demonstrating antioxidant and anticancer potential.
Targets(IC50)	Apoptosis,Antioxidant
In vitro	Xanthoxyletin (1-500 μ M; 30 min) inhibited DPPH radical scavenging with an IC ₅₀ = 247.1 μ M and iron reduction antioxidant capacity (FRAP) with an IC ₅₀ = 45.2 μ M [2]. Xanthoxyletin (10-500 μ M; 24 h) exhibited cytotoxicity against HepG2, HCT116, and SK-LU-1 cancer cells with IC ₅₀ values of 78.2/79.8/94.4 μ M, respectively [2]. Xanthoxyletin (78 and 156 μ M; 12 and 24 hours) induces apoptosis with low necrosis [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8719 mL	19.3596 mL	38.7192 mL
5 mM	0.7744 mL	3.8719 mL	7.7438 mL
10 mM	0.3872 mL	1.936 mL	3.8719 mL
50 mM	0.0774 mL	0.3872 mL	0.7744 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

- Sanna MD, et al. Histamine H4 receptor stimulation in the locus coeruleus attenuates neuropathic pain by promoting the coeruleospinal noradrenergic inhibitory pathway. *Eur J Pharmacol.* 2020;868:172859.
- Jantamat P, et al. Cytotoxicity and Apoptosis Induction of Coumarins and Carbazole Alkaloids from *Clausena harmandiana*. *Molecules.* 2019;24(18):3385. Published 2019 Sep 18.

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